

Prof. Dr. Engr. Muhibul Haque Bhuyan

Employee ID #: 0009319986, Code # 8173

Current Designation: Professor and Chairman

Name of the Department: Electrical and Electronic Engineering

Name of the School: Science and Engineering

University: Southeast University, Tejgaon, Dhaka



Academic Qualifications:

| Sl # | Name of Degree | Institution | Board | Major | Passing Year | Result/CGPA |
|------|----------------|--|-------|---------|--------------|-------------|
| 1. | Ph.D | Bangladesh University of Engineering and Technology (BUET) | - | EEE | 2011 | 4.00/4.00 |
| 2. | M.Sc. Engg. | Bangladesh University of Engineering and Technology (BUET) | - | EEE | 2002 | 3.36/4.00 |
| 3. | B.Sc. Engg. | Bangladesh University of Engineering and Technology (BUET) | - | EEE | 1998 | 3.70/4.00 |
| 4. | HSC | Notre Dame College | Dhaka | Science | 1991 | 86.0% |
| 5. | SSC | Bangladesh Bank High School | Dhaka | Science | 1989 | 77.4% |

Tenure of Teaching/ Research Experiences:

Full-Time Experiences:

| Sl # | Position | Department | University | Start | End | Length of Service |
|------|---------------------|------------|--|------------|------------|----------------------|
| 1. | Professor | EEE | Southeast University | 01.11.2018 | Continuing | 2 year, 2 months* |
| 2. | Associate Professor | EEE | Southeast University | 15.12.2015 | 31.10.2018 | 2 years, 10.5 months |
| 3. | Professor | EEE | Green University of Bangladesh | 01.08.2013 | 16.09.2015 | 2 years, 1.5 months |
| 4. | Associate Professor | EEE | Green University of Bangladesh | 01.07.2012 | 31.07.2013 | 1 year, 1 month |
| 5. | Associate Professor | EEE | Daffodil International University | 01.01.2012 | 30.06.2012 | 6 months |
| 6. | Assistant Professor | EEE | Presidency University | 01.06.2010 | 31.12.2011 | 1 year, 7 months |
| 7. | Assistant Professor | EEE | Daffodil International University | 25.11.2009 | 31.05.2010 | 6 months |
| 8. | Assistant Professor | ETE | Daffodil International University | 01.07.2005 | 24.11.2009 | 4 years, 5 months |
| 9. | Senior Lecturer | ETE | Daffodil International University | 01.01.2005 | 30.06.2005 | 6 months |
| 10. | Researcher | AdSM | Hiroshima University, Japan | 07.07.2003 | 30.03.2004 | 9 months |
| 11. | Lecturer | COE/EEE | American International University Bangladesh | 01.06.1999 | 30.06.2003 | 4 years, 1 month |

Total Experiences: As Professor: 4 years, 3.5 months, Associate Professor: 4 years, 5.5 months, Assistant Professor: 6 years, 6 months, Senior Lecturer: 6 months, Lecturer: 4 years, 1 month, Researcher: 9 months=**20 years, 7.0 months**

* Considering experiences up to 31.12.2020

Part-Time Experiences:

| Sl # | Position | Department | University | Start | End | Length of Service |
|---|---------------------|------------|---|------------|------------|--------------------|
| 1. | Professor | EEE | International Islamic University Chittagong | 01.09.2013 | 28.02.2016 | 2 years, 6 months |
| 2. | Assistant Professor | ETE/EEE | Daffodil International University | 10.09.2010 | 31.12.2011 | 1 year, 4 months |
| 3. | Assistant Professor | CSE | Peoples University | 01.05.2005 | 30.06.2005 | 6 months |
| 4. | Assistant Professor | CSE | East West University | 02.05.2004 | 31.01.2005 | 9 months |
| 5. | Lecturer | EEE | Ahsanullah University of Science and Technology | 10.04.2004 | 28.02.2005 | 11 months |
| 6. | Lecturer | EEE | Ahsanullah University of Science and Technology | 01.09.1999 | 30.06.2003 | 3 years, 10 months |
| 7. | Teaching Assistant | EEE | Bangladesh University of Engineering and Technology | 01.01.1999 | 31.05.1999 | 6 months |
| Total Experiences: As Professor: 2 years, 6 months, Associate Professor: Nil, Assistant Professor: 2 years, 7 months, Lecturer: 4 years, 9 months, Teaching Assistant: 6 months= 10 years, 4 months | | | | | | |

OBE related Work Experiences:

1. **Member, Evaluation Team (ET)** of Board of Accreditation for Engineering and Technical Education (**BAETE**), Bangladesh: constituted for the **Accreditation of B.Sc. in Electrical and Electronic Engineering (EEE) Program** of Bangladesh University of Business and Technology (**BUBT**), Mirpur, Dhaka.

Administrative Services:

2. **March 2016-till present:** Working as the **Chairman** of the **Department of Electrical and Electronic Engineering** and **Department of Information and Communication Engineering** of Southeast University. As the Chairman of EEE Department, I have taken the following initiatives:
 - (a) Developed class conduction, assessment and evaluation processes of theory and laboratory courses, research and internship work supervision methods through online platforms during Covid-2019 pandemic in Bangladesh.
 - (b) Submitted application to BAETE under IEB for accreditation of B.Sc. in EEE program based on OBE on 11 March 2019. The evaluation team visited the program on 21-23 July 2019 and their exit meeting report was positive.
 - (c) Developed and revised the undergraduate course curriculum of EEE Department based on OBE, and it is passed in the 30th Academic Council Meeting of SEU and is effective from Spring 2019 Semester
 - (d) Presented the undergraduate program of EEE Department for diploma holders in Friday program, and it is passed in the 29th Academic Council Meeting of SEU; first batch started from Spring 2019 Semester with 140 students
 - (e) Presented the undergraduate program of EEE Department for diploma holders in evening program, and it is passed in the 27th Academic Council Meeting of SEU; first batch started from Spring 2018 Semester with 40 students
 - (f) Developed and revised the undergraduate course curriculum of EEE Department, and it is passed in the 24th Academic Council Meeting of SEU and is effective from Fall 2016 Semester
 - (g) Developed and submitted the postgraduate course curriculum of M.Sc. Engg. in EEE program; prepared its mode of operation. It is passed in the Academic Council and Syndicate Meeting of SEU
 - (h) Prepared vision, mission, goal, objectives, slogan, logo, Chairman's message etc. for EEE Department
 - (i) Prepared and presented the Perspective 05-Year Plan of EEE Department at the Vice Chancellor's meeting
 - (j) Prepared a strategic plan for the EEE Department including SWOT Analysis, resource planning, human resource development planning, resources development planning, action plans and annual activity plans.
 - (k) Submitted application to BAETE for IEB accreditation of B.Sc. in EEE program and got it in 12 July 2018
 - (l) Reformed the modes of operation of B.Sc. in EEE program at SEU
 - (m) Introduced Research Cell in the EEE Department for increasing Faculty research activities
 - (n) Started conducting the Research/Internship Defense as the Chairman of the Board of Examiner and prepared standard template for report writing using Microsoft Word and midterm presentation style using Microsoft Power Point and final presentation using A0 size poster
 - (o) Introduced Course File submission system for the department containing course outline, quizzes, questions, assignment, laboratory experiment sheets and other course related activities
 - (p) Framed all the policies and guidelines for the Department and articulated in the brochure
 - (q) Updating the website of EEE Department with its all contents, faculty members' profiles, course curriculum

- (r) Using Digital Notification system through *Facebook* group of EEE Department
 - (s) Introduced group email and ensured its effective utilization and reduced paper use
 - (t) Reforming existing laboratories and establishing new laboratories for EEE Department at SEU
 - (u) Decorating the EEE department with the world famous scientists' and engineers' photos and biographies.
 - (v) Preparing plans for the teachers load distribution, thesis distribution, students course offering etc.
 - (w) Publishing EEE Catalogue, Flier and Department's semester-wise magazine/Newsletter
 - (x) Organizing seminars/ workshops for the students and Faculty Members
 - (y) Introduced EEE Club, IEEE Student Branch and prepared both of its constitution
 - (z) Introducing Student Mentorship Program in the EEE Department
 - (aa) Introducing Meet the Student Program in EEE Department
 - (bb) Introduced departmental quality assurance cell for ensuring academic quality of the department
 - (cc) Introduced Laboratory-In-Charge for each laboratory of the EEE Department to monitor their activities
 - (dd) Arranging industrial visits/ study tours etc. for the students to different organizations
 - (ee) Recommending students in different companies for internships and jobs as well as for higher studies
 - (ff) Sent many students for industrial training at various power stations and TICI
 - (gg) Prepared and submitted a feasibility study report on opening the BSc in EEE evening program for Diploma and job holders. Prepared its modes of operation and program started from Spring 2018 Semester
3. **October 2016-October 2018:** Worked as the **Head** of the **Self-Assessment Committee** of EEE Department of Southeast University (SEU) under the fund of TK9,55,000/- of HEQEP project, UGC. External Peer Review Team evaluated the Self-Assessment Report prepared by the department using survey data obtained from 5 stake holders and gave 'Very Good' Grade with 44 marks out of 50.
4. **July 2012-September 2015:** Worked as the **Chairperson** of the **Department of Electrical and Electronic Engineering** of Green University of Bangladesh (GUB), Dhaka. As the Chairperson of EEE Department, I did the following works:
- (a) Developed and revised the undergraduate course curriculum of EEE Department and arranged curriculum committee meeting and passed it and forwarded to the Academic Council for approval
 - (b) Reformed the day and evening shift programs of the B.Sc. in EEE program for the HSC passed students and diploma holders.
 - (c) Established various undergraduate laboratories of EEE Department at GUB
 - (d) Prepared vision, mission, goal, objectives, slogan, monogram, flag etc. for EEE Department.
 - (e) Prepared a strategic plan for the EEE Department including SWOT Analysis, resource planning, human resource development planning, resources development planning, action plans and annual activity plans.
 - (f) Introduced credit equivalence committee and degree review committee for the students of EEE Department. Also prepared its processes and policies.
 - (g) Worked for IEB accreditation of B.Sc. in EEE program. Filled-up the form and submitted 6 sets to the IEB and finally 4-Member Evaluation Board has been formed for IEB accreditation and later got accreditation in 2018
 - (h) Decorated department with the world famous scientists' and engineers' photos and biographies.
 - (i) Evaluated quotations of different laboratory equipment to be procured through technical evaluation committee and tested the purchased equipment and instrument
 - (j) Conducted the Thesis/Project Defense as the Chairman of the Board of Examiner and invited External Examiners from public universities and engineering industries.
 - (k) Conducted weekly Academic Committee meeting of EEE Department and prepared all proceedings.
 - (l) Planned the semester schedules; prepared the class routine and registration schedule, teachers load distribution, thesis distribution etc.
 - (m) Published EEE Catalogue, Flier and Department's semester-wise magazine "EEE Times".
 - (n) Organized seminars/ workshops for the students and Faculty Members and invited renowned speakers from home and abroad
 - (o) Introduced EEE Club and prepared its constitution and organized various programs through it
 - (p) Introduced student mentorship program in the EEE Department
 - (q) Introduced Meet the Student Program in EEE Department
 - (r) Introduced Research Cell in the EEE Department and encouraged Faculty Members to do group research
 - (s) Introduced departmental quality assurance cell for ensuring academic quality of the department and organized monthly meeting on it
 - (t) Introduced Laboratory-In-Charge for each laboratory of the EEE Department to monitor their activities
 - (u) Arranged industrial visits/ study tours etc. for the students to different organizations
 - (v) Presented report of the EEE department in the Academic Council Meeting
 - (w) Prepared and sent to the office of the Vice Chancellor about Faculty Members' and departmental monthly, semester and annual reports.
 - (x) Placed and recommended many students in different companies for internships and jobs.
5. **01 June 2014-September 2015:** Worked as the **Proctor** and **Member Secretary** of the **Disciplinary and Sexual Harassment Committees** of Green University of Bangladesh.
6. **July 2005 to August 2008:** Worked as the **Head** of the **Department of Electronics and Telecommunication Engineering** of Daffodil International University, Dhaka, Bangladesh. As Head of the department, I did the following works:

- a. Developed and revised the undergraduate course curriculum of ETE Department
 - b. Introduced the evening shift of the B.Sc. in ETE program for the diploma holders
 - c. Introduced the Master of Science in ETE program
 - d. Introduced “Certified Wireless Networks Administrator (CWNA)” course for the students of ETE Department. Four batches completed this course successfully
 - e. Established the laboratory for CWNA course
 - f. Worked for IEB accreditation of B.Sc. in ETE and CSE programs. Filled-up the forms and submitted 12 sets to the IEB and finally both the program got IEB accreditation and got accreditation later in 2012
 - g. Initiated the process of opening a new program of Bachelor of Science in Electrical and Electronic Engineering (EEE) in DIU and the program was successfully opened from Fall 2009 semester with 27 fresh students
 - h. Established various undergraduate laboratories of ETE and EEE Department at DIU
 - i. Published ETE and EEE Department’s prospectus and flier
 - j. Evaluated quotations of different laboratory equipment to be procured.
 - k. Conducted the Thesis/Project Defense as the Chairman of Examination Committee
 - l. Conducted the admission examination of B.Sc. and M.Sc. programs of ETE department
 - m. Planned the semester schedules; prepared the class routine and registration schedule, teachers load distribution etc.
 - n. Organized seminars/workshops for the students; sent the students to different organizations for internships/visits/industrial tours etc.
 - o. Presented Head’s report of the ETE department in the Academic Council Meeting of DIU
 - p. Placed many students in different companies for internship.
- **May 2005 to June 2005:** Worked as a **Coordinator** of the **Department of Electronics and Telecommunication Engineering** of Daffodil International University, Dhaka, Bangladesh.

Teaching Competencies:

- 1) Expert in cognitive, affective and psychomotor domain teaching
- 2) Expert in outcome based education
- 3) Expert in student engagement in the class
- 4) Expert in teaching through motivation
- 5) Expert in laboratory development and experimental works
- 6) Expert in numerical computation and simulation
- 7) Expert in bringing academic innovation and excellence to the Department
- 8) Expert in enforcement of academic rules, regulations, policies and discipline in the department
- 9) Expert in Fair Evaluation during grading irrespective of gender, race, religion, culture, etc.

Teaching Interests:

- 1) Control Systems
- 2) Power Systems
- 3) Electromagnetics
- 4) Numerical Analysis and Engineering Mathematics
- 5) VLSI Design
- 6) Optoelectronics
- 7) Micro-Electronics
- 8) Semiconductor Devices
- 9) Properties of Materials
- 10) Digital Electronics and Pulse Techniques

Research Areas:

- 1) Semiconductor device modeling
- 2) Numerical device and process simulation of pocket implanted and SOI MOSFETs
- 3) Power Electronics and Control Systems design using PLC, microcontroller, DSP or FPGA
- 4) Biomedical Electronics
- 5) System design using VHDL
- 6) Electrical and Electronic Engineering Education at tertiary level

Research Publications:

(a) Thesis:

- PhD Thesis: **Analytical Modeling of the Pocket Implanted Nano Scale n-MOSFETs**
- M.Sc. Engg. Thesis: **Digital Signal Processor Controlled PWM Phase Modulator for Two-Phase Voltage Source Inverter**
- B.Sc. Engg. Thesis: **Microcomputer Based Dish Antenna Position Control System**

(b) Journal Papers:

- [1] **Muhibil Haque Bhuyan**, “Assessing and Evaluating the Course Outcomes of the Semiconductor Device Course for Bachelor of Science in Electrical and Electrical Engineering Program,” *International Journal of Teaching and Learning*, submitted.
- [2] **Muhibil Haque Bhuyan**, “Assessing and Evaluating the Course Outcomes of the Control Systems Course for Bachelor of Science in Electrical and Electrical Engineering Program,” *International Journal of Teaching and Learning*, submitted.
- [3] **Muhibil Haque Bhuyan** and Q. D. M. Khosru, “A Comparative Study on the Symmetric and Asymmetric Pocket Profile based Pinch Off Voltage for the Pocket Implanted Nano Scale n-MOSFET,” submitted to an *International Journal*.
- [4] **Muhibil Haque Bhuyan**, “Comparative Study on various Blood Pressure Measuring Techniques,” submitted to an *International Journal*.
- [5] **Muhibil Haque Bhuyan** and Q. D. M. Khosru, “Effect of gate oxide thickness on the Performance of Asymmetric Pocket Profile based Pocket Implanted Nano Scale n-MOSFET Devices,” submitted to an *International Journal*.
- [6] **Muhibil Haque Bhuyan et al.**, “Design and Simulation of Semiconductor Devices using SILVACO,” *Southeast University Journal of Science and Engineering (SEUJSE)*, submitted.
- [7] **Muhibil Haque Bhuyan**, “Assessing ‘Life-long Learning’ in Capstone Design Project for BSc in EEE Program,” *submitted International Journal of Learning and Teaching (IJLT)*, 1986-4558, vol. *, issue *, October 2020, pp. *.
- [8] **Muhibil Haque Bhuyan**, “Guidelines for Developing, Supervising, Assessing and Evaluating Capstone Design Projects of Undergraduate Electrical and Electrical Engineering Program,” *submitted International Journal of Educational and Pedagogical Sciences*, vol. *, no. *, 2020, *World Academy of Science, Engineering and Technology*, pp. **.
- [9] **Muhibil Haque Bhuyan**, “Fabrication Process of Pocket Implanted MOSFET Structure,” *Southeast University Journal of Science and Engineering (SEUJSE)*, 1999-1630, vol. 14, no. 1, June 2020, pp. 1-17.
- [10] **Muhibil Haque Bhuyan**, M. M. Ahmed and S. A. Robin, “Design, Simulation and Comparative Analysis of Performance Parameters of a 4-bit CMOS based Full Adder Circuit using Microwind and DSch at Various Technology Nodes,” *IOSR Journal of VLSI and Signal Processing (IOSRJVSP)*, vol. *, no. *, 2020, pp. **.
- [11] **Muhibil Haque Bhuyan**, and S. S. Azmiri Khan, “Assessing and Evaluating the Course Outcomes of Electrical Circuit Course for Bachelor of Science in Electrical and Electronic Engineering Program,” *International Journal of Educational and Pedagogical Sciences*, vol. 14, no. 8, 2020, *World Academy of Science, Engineering and Technology*, pp. **.
- [12] **Muhibil Haque Bhuyan** and M. Hasan, “Design and Simulation of Heartbeat Measurement System using Arduino Microcontroller in Proteus,” *International Journal of Biomedical and Biological Engineering*, vol. 14, no. 8, 2020, e-ISSN : 1307-6892, *World Academy of Science, Engineering and Technology*, pp. **.*.
- [13] **Muhibil Haque Bhuyan**, M. T. Hasan and H. Iskander, “Low Cost Microcontroller Based ECG Machine,” *International Journal of Biomedical and Biological Engineering*, vol. 14, no. 7, 2020, e-ISSN : 1307-6892, *World Academy of Science, Engineering and Technology*, pp. 192-199.
- [14] **Muhibil Haque Bhuyan** and A. Tamir, “Evaluating COs of Computer Programming Course for OBE-based BSc in EEE Program,” *International Journal of Learning and Teaching (IJLT)*, 1986-4558, vol. 12, issue 2, April 2020, pp. 86-99.
- [15] **Muhibil Haque Bhuyan** and M. R. F. Shams, “Design and Simulation of a 4:1 Multiplexer in Microwind and DSch using 90 nm CMOS Technology,” *Southeast University Journal of Science and Engineering (SEUJSE)*, 1999-1630, vol. 13, no. 2, December 2019, pp. **.
- [16] **Muhibil Haque Bhuyan**, S. D. Monty and M. R. Z. Sarkar, “Design and Implementation of an NIR-Technique Based Non-Invasive Glucometer using Microcontroller,” *Journal of Bangladesh Electronics Society*, 1816-1510, vol. 19, no 1-2, June-December 2019, pp. 75-84.
- [17] **Muhibil Haque Bhuyan**, “A Review of Recent Research Works on Negative Capacitance Field Effect Transistor,” *Southeast University Journal of Science and Engineering (SEUJSE)*, 1999-1630, vol. 13, no. 1, June 2019, pp. 36-44.
- [18] **Muhibil Haque Bhuyan**, “RF Semiconductor Devices Technology: History and Evolution, Prospects and Opportunities, Current and the Future,” *Southeast University Journal of Science and Engineering (SEUJSE)*, 1999-1630, vol. 12, no. 2, December 2018, pp. 28-39.
- [19] **Muhibil Haque Bhuyan**, N. Mohammad, M. R. Islam and M. A. A. Noman, “Determination of Satisfaction Level of Electrical and Electronic Engineering Students of Southeast University,” *International Journal of Learning and Teaching (IJLT)*, 1986-4558, vol. 10, issue 4, October 2018, pp. 312-324.
- [20] **Muhibil Haque Bhuyan** and S. S. Azmiri Khan, “Motivating Students in Electrical Circuit Course,” *International Journal of Learning and Teaching (IJLT)*, 1986-4558, vol. 10, issue 2, April 2018, pp. 137-147.
- [21] **Muhibil Haque Bhuyan**, S. S. Azmiri Khan and M. Z. Rahman, “Teaching Digital Electronics Course for Electrical Engineering Students in Cognitive Domain,” *International Journal of Learning and Teaching (IJLT)*, 1986-4558, vol. 10, issue 1, January 2018, pp. 1-12.

- [22] **Muhibul Haque Bhuyan**, "History and Evolution of CMOS Technology and its Application in Semiconductor Industry," Southeast University Journal of Science and Engineering (SEUJSE), 1999-1630, vol. 11, no. 1, June 2017, pp. 28-42.
- [23] **Muhibul Haque Bhuyan** and S. S. Azmiri Khan, "Teaching Numerical Analysis Course for Electrical Engineering Students using MATLAB," Southeast University Journal of Science and Engineering (SEUJSE), 1999-1630, vol. 10, no. 2, December 2016, pp. 38-46.
- [24] R. Tittlee and **Muhibul Haque Bhuyan**, "Design, Implementation and Testing of Ultrasonic High Precision Contactless Distance Measurement System Using Microcontroller," Southeast University Journal of Science and Engineering (SEUJSE), 1999-1630, vol. 10, no. 2, December 2016, pp. 6-11.
- [25] A. A. Mansur, B. C. Shill and **Muhibul Haque Bhuyan**, "Design and Development of PC Based Elevator Control Systems via ATmega32 Microcontroller," Southeast University Journal of Science and Engineering (SEUJSE), 1999-1630, vol. 10, no. 1, June 2016, pp. 102-107.
- [26] S. M. Faruk, M. M. Hossain, A. A. Mansur and **Muhibul Haque Bhuyan**, "Improvement of Input Side Current of a Three-Phase Cúk Rectifier," Southeast University Journal of Science and Engineering (SEUJSE), 1999-1630, vol. 9, no. 1-2, December 2015, pp. 45-51.
- [27] S. M. Kabir, A. A. Mansur and **Muhibul Haque Bhuyan**, "Vowel Recognition for Isolated Digits Using Wavelet Transform at Decomposition Level-1: A Feasibility Study," GUB Journal of Science and Engineering, Green University Press, 2409-0476, vol. 2, issue 1, January 2015, pp. 7-11.
- [28] **Muhibul Haque Bhuyan**, S. S. Azmiri Khan and M. Z. Rahman, "Teaching Analog Electronics Course for Electrical Engineering Students in Cognitive Domain," Journal of Electrical Engineering, the Institution of Engineers Bangladesh (IEB-EE), 0379-4318, vol. EE 40, no. I-II, June-Dec. 2014, pp. 52-58.
- [29] **Muhibul Haque Bhuyan**, "On the Single Electron Transistor," Journal of Bangladesh Electronics Society, 1816-1510, vol. 14, no 1-2, June-December 2014, pp. 43-52(ii).
- [30] **Muhibul Haque Bhuyan**, "Teaching Electrical Circuits Course for Electrical Engineering Students in Cognitive Domain," Journal of Bangladesh Electronics Society, 1816-1510, vol. 14, no 1-2, June-Dec. 2014, pp. 83-91.
- [31] A. A. Mansur, B. C. Shil, K. K. Islam, M. A. Hoque, and **Muhibul Haque Bhuyan**, "Design and Implementation of a Solar Radiation Meter Using PV Panel as a Sensor," GUB Journal of Science and Engineering, Green University Press, 2409-0476, vol. 1, issue 1, July 2014, pp. 32-37.
- [32] **Muhibul Haque Bhuyan** and S. S. Azmiri Khan, "Teaching a Numerical Analysis Course for Electrical Engineering Students in the Cognitive Domain," International Journal of Electrical Engineering Education, Manchester University Press, UK, e: 2050-4578, p: 0020-7209, vol. 51, no. 1, Jan 2014, pp. 82-92.
- [33] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Analytical Subthreshold Drain Current Model Incorporating Inversion Layer Effective Mobility Model for Pocket Implanted Nano Scale n-MOSFET," International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, p: 2010-376X, e: 2010-3778 vol. 7, no. 4, 2013, pp. 465 - 472.
- [34] **Muhibul Haque Bhuyan**, F. Ferdous and Q. D. M. Khosru, "A Semi-Analytical Drain Current Deflection Model for the Symmetric Pocket Implanted n-MOSFET Using Lorentz Force Analysis," International Journal of Electronics, Communications and Electrical Engineering (IJECE), 2277-7040, vol. 3, issue 2, February 2013, pp. 35-47.
- [35] **Muhibul Haque Bhuyan**, "Newton's Method of Optimization: A Simpler Approach," Daffodil International University Journal of Science and Technology, 1818-5878, vol. 8, issue 1, January 2013, pp. 17-24.
- [36] **Muhibul Haque Bhuyan**, F. Ferdous and Q. D. M. Khosru, "Carrier Conduction Time Delay Model of the Pocket Implanted Nano Scale n-MOSFET," Journal of Bangladesh Electronics Society, 1816-1510, vol. 12, no 1-2, June-December 2012, pp. 67-74.
- [37] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "A Semi-Analytical Subthreshold Drain Current Deflection Model for the Asymmetric Pocket Implanted Nano Scale n-MOSFET," Journal of Electrical Engineering, the Institution of Engineers Bangladesh (IEB-EE), 0379-4318, vol. EE 38, no. II, Dec. 2012, pp. 9-15.
- [38] **Muhibul Haque Bhuyan**, "Comparative Study of Different Root Location Methods Using MATLAB Program," Green University Review, 2218-5283, vol. 3, no. 2, December 2012, pp. 30-35.
- [39] **Muhibul Haque Bhuyan**, F. M. Mohammady and Q. D. M. Khosru, "Doping Profile Measurement and Characterization by Scanning Capacitance Microscope for Pocket Implanted Nano Scale n-MOSFET," International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, p: 2010-376X, e: 2010-3778, vol. 5, no. 8, 2011, pp. 1077 - 1084.
- [40] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Inversion Layer Effective Mobility Model for Pocket Implanted Nano Scale n-MOSFET," International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, p:2010-376X, e:2010-3778, vol. 5, no. 1, 2011, pp. 1-8.
- [41] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "An Analytical Subthreshold Drain Current Model for Pocket Implanted Nano Scale n-MOSFET," Journal of Electron Devices, France, 1682-3427, vol. 8, October 2010, pp. 263-267.
- [42] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Pocket Profile Based Threshold Voltage Model for Sub-100 nm n-MOSFET," International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, p: 2010-376X, e: 2010-3778, vol. 4, no. 8, 2010, pp. 1187-1192.

- [43] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Effects of Temperature on Reverse Short Channel Effect in Pocket Implanted Sub-100 nm n-MOSFET," *Journal of Materials Science and Engineering*, USA, 1934-8959, vol. 4, no. 7, July 2010, pp. 18-23.
- [44] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Profile Based Analytical Surface Potential Model for Pocket Implanted Sub-100 nm n-MOSFET," *Journal of Electron Devices*, France, 1682-3427, vol. 7, April 2010, pp. 235-240.
- [45] **Muhibul Haque Bhuyan** and R. A. Nabi "Design and Implementation of FPGA based 32-bit Carry Look Ahead Adder using Verilog HDL in Xilinx Environment," *Journal of Bangladesh Electronics Society*, 1816-1510, vol. 9, no 1-2, pp. 161-167, June-December 2009.
- [46] **Muhibul Haque Bhuyan**, "Investigation of Short Channel Effects Suppression in Pocket Implanted MOSFET using MEDICI," *Journal of Bangladesh Electronics Society*, 1816-1510, vol. 8, no 1-2, pp. 21-29, June-Dec. 2008.
- [47] **Muhibul Haque Bhuyan**, "Finite State Machine Based Directional Counter Design Using VHDL," *Journal of Bangladesh Electronics Society*, 1816-1510, vol. 7, no 1-2, pp. 45-53, June-Dec. 2007.
- [48] **Muhibul Haque Bhuyan** and K. M. Rahman, "Analysis of Three Level PWM for Two-Phase Voltage Source Inverters," *Research Journal of Applied Sciences*, Medwell Online Publishing Company, Pakistan, 1816-949X, vol. 2(1), pp. 70-74, 2007.
- [49] **Muhibul Haque Bhuyan** and K. M. Rahman, "Digital Signal Processor Controlled PWM Phase Modulator for Two-Phase Induction Motor Drive," *Journal of Electrical Engineering*, the Institution of Engineers Bangladesh (IEB-EE), 0379-4318, vol. EE 34, no. I-II, pp. 19-25, Dec. 2007.
- [50] M. A. Bhuiyan, **Muhibul Haque Bhuyan** and M. Abuwasib, "Performance Analysis of Turbo Codes for Wireless Communication," *Journal of Bangladesh Electronics Society*, 1816-1510, vol. 6, no. 2, pp. 59-66, Dec. 2006.
- [51] **Muhibul Haque Bhuyan**, "Wireless Control System for DC Motor to Position a Dish Antenna Using Microcomputer," *Daffodil International University Journal of Science and Technology*, 1818-5878, vol. 2, issue 1, pp. 44-49, January 2007.
- [52] **Muhibul Haque Bhuyan** and S. S. A. Khan, "MOS device simulation using MEDICI," *Journal of Bangladesh Electronics Society*, 1816-1510, vol. 5, no. 2, pp. 67-73, December 2005.

(c) Book:

- [1] Dr. Aminul Islam, Dr. M. Ismail Jabiullah, **Dr. Engr. Muhibul Haque Bhuyan** and Md. Harun-or-Rashid, "*Speeches of the BAAS Presidents (1976-2011)*," published by the President, Bangladesh Association for the Advancement of Science (BAAS), C/O Department of Soil, Water and Environment, University of Dhaka, Dhaka 1000, Bangladesh, ISSN: 0253-5432, April 2012.

(d) Research Report:

- [1] **Muhibul Haque Bhuyan** (COE Researcher) and Mitiko Miura-Mattausch (Professor, Graduate School of Advanced Sciences of Matter), "To Improve HiSIM-SOI for Real Application," *Hiroshima University Annual Research Report*, pp. 100-101, March 2004.
URL: www.rcns.hiroshima-u.ac.jp/21coe/pdf/2004.../102_104_muhibul.pdf

(e) Conference Papers:

- [1] **Muhibul Haque Bhuyan**, "OBE Guidelines to Designing, Teaching, Assessment and Evaluation of Electronics Courses," *Proceedings of the National Conference on Electronics and Informatics*, organized by the Bangladesh Electronics Society and Bangladesh Atomic Energy Commission, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 4-5 December 2019, p. 34, 56 [invited talk].
- [2] M. S. Ali and **Muhibul Haque Bhuyan**, "Design and Implementation of a Low-Cost Blood Pressure Measuring Device," *International Conference on Electrical and Computer Engineering (ICECE)*, organized by BUET, Dhaka, Bangladesh, 20-22 December 2018, pp. 309-312.
- [3] M. S. Ali and **Muhibul Haque Bhuyan**, "Design and Implementation of a Low-Cost Automated Blood Flow Control Device Through Smart Phone for Bio-Medical Application," *Proceedings of the International Conference on Informatics, Electronics and Vision (ICIEV)*, organized by University of Hyogo, Himeji, Japan, 1-3 September 2017, pp. 1-5.
- [4] **Muhibul Haque Bhuyan**, "History and Prospects of Electrical and Electronic Engineering Education in Bangladesh," *Proceedings of the Electronics & Information Technology Research Conference (EITRC)*, organized by the Centre for Research & Innovation in Science, Arts & Technology (CRISAT), Dhaka, Bangladesh, 29 September 2017 [invited talk].
- [5] **Muhibul Haque Bhuyan**, "Evolution of Novel Device Structures of MOSFET," *Proceedings of the National Conference on Electronics and ICT*, organized by the Bangladesh Electronics Society, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 20 April 2017, p. 20 [invited talk].
- [6] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Asymmetric Pocket Profile Based Pinch Off Voltage Model for Nano Scale n-MOSFET," *Proceedings of the IEEE sponsored International Conference on Electrical, Computer and Communication Engineering (ICECCE2017)*, organized by the Chittagong University of Engineering and Technology (CUET), Cox's Bazar, Bangladesh, 16-18 February 2017, pp. 28-32.
- [7] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Pocket Profile Based Pinch Off Voltage Model for Nano Scale n-MOSFET," *Proceedings of the IEEE sponsored International Conference on Electrical, Computer and*

- Telecommunication Engineering (ICECTE 2016), organized by the Rajshahi University of Engineering and Technology (RUET), Rajshahi, Bangladesh, 8-10 December 2016, pp. 1-4, DOI: 10.1109/ICECTE.2016.7879624.
- [8] S. M. Faruk, M. M. Hossain, A. A. Mansur and **Muhibul Haque Bhuyan**, "Investigation of Total Harmonic Distortion of a Three-Phase Cúk Rectifier," Proceedings of the IEEE sponsored International Conference on Informatics, Electronics and Vision (ICIEV 2016), organized by University of Dhaka (DU), Dhaka, Bangladesh, 13-14 May 2016, pp. 385-390.
- [9] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Asymmetric Pocket Profile Based Low Frequency Drain Current Flicker Noise Model for Pocket Implanted Nano Scale n-MOSFET," Proceedings of the IEEE and EDS sponsored International Conference on Electrical Information and Communication Technology (EICT), Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh, 13-15 February 2014, pp. 284-288.
- [10] **Muhibul Haque Bhuyan**, "Teaching Control Systems Course for Electrical Engineering Students in Cognitive Domain," Proceedings of the International Conference On Tertiary Education: Realities & Challenges, Daffodil International University, Dhaka, Bangladesh, 19-21 January 2013, pp. 64-70.
- [11] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Temperature Effects on Threshold Voltage of the Pocket Implanted Fully Depleted Thin Film SOI n-MOSFET," Proceedings of the International Conference on Engineering Research, Innovation and Education (ICERIE) Shahjalal University of Science and Technology, Sylhet, Bangladesh, 11-13 January 2013, pp. 502-507.
- [12] F. Ferdous, **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Carrier Diffusion Time Delay Model of Pocket Implanted Nano Scale n-MOSFET," Proceedings of the International Conference on Electrical and Computer Engineering (ICECE), Dhaka, 20-22 December 2012, pp. 603-606.
- [13] **Muhibul Haque Bhuyan**, F. Ferdous and Q. D. M. Khosru, "Temperature Effects on Subthreshold Drain Current of Nano Scale Pocket Implanted n-MOSFET," Proceedings of the International Conference on Electrical and Computer Engineering (ICECE), Dhaka, 20-22 December 2012, pp. 599-602.
- [14] Md. Kamruzzaman Russel and **Muhibul Haque Bhuyan**, "Microcontroller Based DC Motor Speed Control Using PWM Technique," Proceedings of the International Conference on Electrical, Computer and Telecommunication Engineering (ICECTE), Rajshahi, Bangladesh, 1-2 December 2012, pp. 519-522.
- [15] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Asymmetric Pocket Profile Based Threshold Voltage Model for Nano Scale n-MOSFET," Proceedings of the International Conference on Electrical, Computer and Telecommunication Engineering (ICECTE), Rajshahi, Bangladesh, 1-2 December 2012, pp. 300-303.
- [16] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Analytical Surface Potential Model for Pocket Implanted Fully Depleted Thin Film SOI n-MOSFET," Proceedings of the National Conference on Electronics and ICT for National Development organized by the Bangladesh Electronics Society, Dhaka, Bangladesh, 3-4 October 2012, pp. 275-281.
- [17] **Muhibul Haque Bhuyan**, F. Ferdous and Q. D. M. Khosru, "Effects of Pocket Profile Parameters on Carrier Conduction Time Delay in Pocket Implanted Nano Scale n-MOSFET," Proceedings of the National Conference on Electronics and ICT for National Development organized by the Bangladesh Electronics Society, Dhaka, Bangladesh, 3-4 October 2012, pp. 253-258.
- [18] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Analytical Threshold Voltage Model for Pocket Implanted Fully Depleted Thin Film SOI n-MOSFET," Proceedings of the National Conference on Electronics and ICT for National Development organized by the Bangladesh Electronics Society, Dhaka, 3-4 October 2012, pp. 238-242.
- [19] **Muhibul Haque Bhuyan**, Md. Moidul Haque, M. Abdur Rauf and Md. Mazharul Islam Khan, "Design and Implementation of a Microcontroller Based Elevator Control Systems," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE), Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh, 11-13 January 2011, pp. 504-507.
- [20] **Muhibul Haque Bhuyan** and Debashis Das, "Design and Implementation of a Remote Sensing Electricity Supply Control for Industrial Applications," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE), Shahjalal University of Science and Technology, Sylhet, 11-13 January 2011, pp. 517-519.
- [21] **Muhibul Haque Bhuyan**, D. Das and R. Islam, "Design and Manufacturing of a Low Cost Synchronous Motor-Generator for Electrical Machine Laboratory," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE), Shahjalal University of Science and Technology, Sylhet, Bangladesh, 11-13 January 2011, pp. 525-529.
- [22] P. K. Das and **Muhibul Haque Bhuyan**, "Design and Implementation of a PLC Based Screw Air Compressor for Industrial Applications," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE), Shahjalal University of Science and Technology, Sylhet, Bangladesh, 11-13 January 2011, pp. 512-516.
- [23] M. L. Rahman and **Muhibul Haque Bhuyan**, "Linearization of Voltage-Controlled Oscillator by Microcontroller Based PLL Frequency Synthesizer," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE), Shahjalal University of Science and Technology, Sylhet, 11-13 January 2011, pp. 628-631.
- [24] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Low Frequency Drain Current Flicker Noise Model for Pocket Implanted Nano Scale n-MOSFET," Proceedings of the IEEE and EDS sponsored Nano Materials and Device Conference (NMDC), 12-15 October 2010, CA, USA, pp. 295-299.
- [25] M. L. Rahman and **Muhibul Haque Bhuyan**, "Design and Optimization of VCO PLL Frequency Synthesizer," Proceedings of the National Conference on Electronics and Telecommunications for Digital Bangladesh organized by the Bangladesh Electronics Society, Dhaka, 2-3 June 2010, pp. 227-232.

- [26] **Muhibul Haque Bhuyan**, M. A. Rabby and M. M. G. Tarik, "Microcontroller based Automatic Traffic Light Control System Design," Proceedings of the National Conference on Electronics and Telecommunications for Digital Bangladesh organized by the Bangladesh Electronics Society, Dhaka, 2-3 June 2010, pp. 139-142.
- [27] **Muhibul Haque Bhuyan** and M. A. Kabir, "PLC based Automatic Railway Gate Control System," Proceedings of the National Conference on Electronics and Telecommunications for Digital Bangladesh organized by the Bangladesh Electronics Society, Dhaka, Bangladesh, 2-3 June 2010, pp. 136-138.
- [28] **Muhibul Haque Bhuyan**, "Output Response Improvement of a DC Motor Drive Position Control System using a PID Controller," Proceedings of the National Conference on Electronics and Telecommunications for Digital Bangladesh organized by the Bangladesh Electronics Society, Dhaka, 2-3 June 2010, pp. 97-101.
- [29] **Muhibul Haque Bhuyan**, M. A. Rabby, M. A. Parvez and M. M. G. Tarik, "Microcontroller Based Display System Design using LED Array," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE) held at Shahjalal University of Science and Technology, Sylhet, Bangladesh, 11-13 January 2010, pp. 417-420.
- [30] **Muhibul Haque Bhuyan**, M. A. Kabir, M. A. Rahman and A. A. Mamun, "Development of an Automatic Traffic Signal Control System Using PLC," Proceedings of the Conference on Engineering Research, Innovation and Education (CERIE) held at Shahjalal University of Science and Technology, Sylhet, Bangladesh, 11-13 January 2010, pp. 360-364.
- [31] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "Linear Pocket Profile Based Threshold Voltage Model For Sub-100 nm n-MOSFET Incorporating Substrate and Drain Bias Effects," Proceedings of the International Conference on Electrical and Computer Engineering, Dhaka, 20-22 December 2008, 447-451.
- [32] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, "An Analytical Surface Potential Model for Pocket Implanted Sub-100 nm n-MOSFET," Proceedings of the International Conference on Electrical and Computer Engineering, Dhaka, 20-22 December 2008, pp 442-446.
- [33] **Muhibul Haque Bhuyan**, F. Ferdous and Q. D. M. Khosru, "A Threshold Voltage Model for sub-100 nm Pocket Implanted MOSFET," Proceedings of the International Conference on Electrical and Computer Engineering, Dhaka, 19-21 December 2006, pp. 522-525.
- [34] **Muhibul Haque Bhuyan** and P. K. Saha, "Microcomputer Based Dish Antenna Position Control System with Autocalibration Option," Proceedings of the International Conference on Computing and Information Technology, Dhaka, 28-30 December 2005, pp. 417-421.
- [35] **Muhibul Haque Bhuyan** and S. S. A. Khan, "Investigation of short channel effects in MOSFET using the device simulator, MEDICI," Proceedings of the Multimedia University International Symposium on Information and Communications Technologies, Petaling Jaya, Malaysia, November 24-25, 2005, TS16 9-12.
- [36] **Muhibul Haque Bhuyan** and K. M. Rahman, "Design of A Two-Level PWM Scheme for Two Phase Voltage Source Inverter using DSP," Proceedings of the Multimedia University International Symposium on Information and Communications Technologies, Petaling Jaya, Malaysia, 24-25 Nov. 2005, pp. TS16 1-4.
- [37] **Muhibul Haque Bhuyan**, K. M. Rahman and M. A. Choudhury, "DSP based Three Level PWM for Two Phase VSI," Proceedings of the International Conference on Electrical and Computer Engineering, Dhaka, 28-30 December 2004, pp. 355-358.
- [38] P. K. Saha, S. S. Ahsan, **Muhibul Haque Bhuyan**, K. Islam and AHM Z. Alam, "Microcomputer Based Dish Antenna Position Control System," Proceedings of the International Conference on Computing and Information Technology, Dhaka, 18-20 December 1998, pp. 273-277.

(f) Abstracts:

- [1] J. Hasan, T. Parvez and **Muhibul Haque Bhuyan**, "Study and Simulation of Vacuum Field Effect Transistor Using MATLAB," *Proceedings of the National Conference on Electronics and Informatics*, jointly organized by the Bangladesh Electronics Society and Bangladesh Atomic Energy Commission, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 4-5 December 2019, p. 58.
- [2] M. S. A. Risha and **Muhibul Haque Bhuyan**, "Design and Development of Sustainable Smart DC Micro-Grid and its Control with Multiple Renewable Sources," *Proceedings of the National Conference on Electronics and Informatics*, jointly organized by the Bangladesh Electronics Society and Bangladesh Atomic Energy Commission, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 4-5 December 2019, p. 57.
- [3] M. Hasan, M. H. A. Sheikh and **Muhibul Haque Bhuyan**, "Design and Simulation of a Heart Measurement System using Arduino Microcontroller in Proteus," *Proceedings of the National Conference on Electronics and Informatics*, jointly organized by the Bangladesh Electronics Society and Bangladesh Atomic Energy Commission, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 4-5 December 2019, p. 57.
- [4] M. S. Ahmed, A. Hossain, M. A. A. Bhuiyan and **Muhibul Haque Bhuyan**, "Design, Implementation and Testing of a Dye Sensitized Solar Cell," *Proceedings of the National Conference on Electronics and Informatics*, jointly organized by the Bangladesh Electronics Society and Bangladesh Atomic Energy Commission, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 4-5 December 2019, p. 56.
- [5] M. S. Ali and **Muhibul Haque Bhuyan**, "Design and Development of a Microcontroller Based Automatic Blood Flow Monitoring and Controlling System," *Proceedings of the National Conference on Electronics and ICT*, organized by the Bangladesh Electronics Society, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 20 April 2017, p. 25.

- [6] R. Titlee and **Muhibul Haque Bhuyan**, “Microcontroller Based High Precision Non-Contact Distance Measurement System Using Ultrasound,” *Proceedings of the National Conference on Electronics and ICT*, organized by the Bangladesh Electronics Society, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 20 April 2017, p. 26-27.
- [7] **Muhibul Haque Bhuyan** and D. Das, “Design of a Microcontroller Based Automatic Power Factor Improvement Plant for Power System Protection Laboratory,” *Proceedings of the National Conference on Electronics for Digital Society*, organized by the Bangladesh Electronics Society, Dhaka, Bangladesh, 26 June 2014, p. 32.
- [8] **Muhibul Haque Bhuyan**, “Comparative Study of Different Root Location Methods Using MATLAB Programs,” *Proceedings of the 16th Mathematics Conference*, organized by the Department of Mathematics, Bangladesh University of Engineering and Technology (BUET) and Bangladesh Mathematical Society, Dhaka, 17-19 December 2009, p. 34.
- [9] **Muhibul Haque Bhuyan** and Q. D. M. Khosru, “Linear Pocket Profile Based Threshold Voltage Model for NMOSFET down to 50 nm,” *Proceedings of the National Conference on Electronics, Information and Telecommunication*, Rajshahi, 29-30 June 2007, p. 192.
- [10] **Muhibul Haque Bhuyan**, “Study of Process Parameters Variations on Threshold Voltages for Pocket Implanted NMOSFET using TSUPREM,” *Proceedings of the National Conference on Electronics, Information and Telecommunication*, Rajshahi, 29-30 June 2007, p. 190.

(g) Poster Paper:

- [1] M. J. Mallik and **Muhibul Haque Bhuyan**, “Analyzing the Prospects of Electric Power Generation from Kaplan Turbine Driven Wave Energy Using MATLAB,” *Proceedings of the National Conference on Electronics and Informatics*, jointly organized by the Bangladesh Electronics Society and Bangladesh Atomic Energy Commission, held at Bangladesh Atomic Energy Center (BAEC), Dhaka, Bangladesh, 4-5 December 2019, p.78.
- [2] **Muhibul Haque Bhuyan**, M. O. Ali and I. U. Ahmed, “Internet and Intranet Connectivity through Wireless Local Area Network (WLAN),” *Proceedings of the National Conference on Communication and Information Security*, Daffodil International University, Dhaka, 24 November 2007, pp. 187-191.
- [3] N. Sadachika, M. M. Yusoff, Y. Uetsuji, **Muhibul Haque Bhuyan**, D. Kitamaru, H. J. Mattausch, M. Miura-Mattausch, L. Weiss, U. Feldmann and S. Baba, “The Surface-Potential-Based model HiSIM-SOI and its Application to 1/f Noise in Fully-Depleted SOI-MOSFETs,” *Technical Proceedings of the Workshop on Compact Modeling (WCM2005)*, ISBN: 0-9767985-3-0, Nano Science and Technology Institute (NSTI), URL: <http://nsti.org/procs/Nanotech2005WCM/2>, CA, USA, 8-12 May 2005, pp. 155-158.

Selected Thesis/Research/Project Supervision (Internships are not included):

| Sl # | Title of Thesis/ Research | Student Name(s) | Program | Completion Time | University |
|--|---|---|--------------|-----------------|------------|
| <i>Post Graduate Thesis Supervision</i> | | | | | |
| 1. | Linearization of Voltage-Controlled Oscillator by Microcontroller Based PLL Frequency Synthesizer | Md. Lutfor Rahman | M.Sc. in ETE | Fall 2010 | Daffodil |
| 2. | Design and Implementation of a PLC Based Screw Air Compressor for Industrial Applications | Poresh Kanti Das | M.Sc. in ETE | Fall 2010 | Daffodil |
| 3. | Design and Implementation of a Remote Sensing Electricity Supply Control for Industrial Applications | Abdullah-Al-Mamun | M.Sc. in ETE | Summer 2011 | Daffodil |
| <i>Post Graduate Thesis External Examiner</i> | | | | | |
| 1. | Characterization of Electronic and Optical Properties of Doped GeSe Monolayer using First-Principles Calculation | Rajat Chakraborty, supervised by Prof. Dr. Samia Subrina | M.Sc. in EEE | August 2020 | BUET |
| 2. | Analytical Modeling of Channel Potential and Threshold Voltage of Triple Material Gate AlGaIn/GaN HEMT and Study of its Self-Heating Effect | Md. Tashfiq Bin Kashem, supervised by Assoc. Prof. Dr. Samia Subrina | M.Sc. in EEE | August 2016 | BUET |
| 3. | Physics Based 2-D Analytical Modeling of Triple Material Double Gate Tunnel Field Effect Transistor | Samia Safa, supervised by Prof. Dr. Md. Ziaur Rahman Khan | M.Sc. in EEE | August 2016 | BUET |
| 4. | Analytical Modeling of a Vacuum Field Effect Transistor | Mehedy Hasan Bappy, supervised by Prof. Dr. Md. Ziaur Rahman Khan | M.Sc. in EEE | August 2015 | BUET |
| 5. | Analytical Modeling of Bulk Hetero-junction Organic Solar Cells Incorporating Spatial Distribution of Photocarrier Generation | Muktar Mahmud Chowdhury, supervised by Assoc. Prof. Dr. Md. Kawser Alam | M.Sc. in EEE | June 2015 | BUET |
| <i>Under Graduate Thesis/Project Supervision</i> | | | | | |
| 1. | Design and Implementation of an IoT and Microcontroller Based Pulse Oximeter | Refat Sarder | B.Sc. in EEE | Summer 2020 | Southeast |
| 2. | Design and Implementation of a Blood Pressure Monitoring Device using IoT | Tuhfatun An-Nisa, Sabbir Hasan | B.Sc. in EEE | Spring 2020 | Southeast |
| 3. | Ocean Wave Energy Harvesting Water Turbine Design using Solid Works | Sazzad Hossain and Ariful Islam | B.Sc. in EEE | Spring 2020 | Southeast |
| 4. | Comparative Analysis of Performance Parameters of an 8-bit Comparator at Various Technology Nodes | Md. Anisur Rahman, Md. Mubarak Hossain Riyadh, Md. | B.Sc. in EEE | Spring 2020 | Southeast |

| Sl # | Title of Thesis/ Research | Student Name(s) | Program | Completion Time | University |
|------|--|--|--------------|-----------------|------------|
| | | Sazzad Hossain | | | |
| 5. | Design and Implementation of a Low Cost ECG Machine | Hasan Iskander and Tanjim Hasan | B.Sc. in EEE | Fall 2019 | Southeast |
| 6. | Comparative Analysis of Performance Parameters of a Multiplexer at Various Technology Nodes | Md. Riad Ferdous Shams | B.Sc. in EEE | Fall 2019 | Southeast |
| 7. | Comparative Analysis of Performance Parameters of a 4-bit Full Adder Circuit at Various Technology Nodes | Md. Mahfuz Ahmed, Md. Shariful Alam | B.Sc. in EEE | Fall 2019 | Southeast |
| 8. | Design and Implementation of Non-Invasive Glucometer Based on NIR-Technique | Md. Rafsun Zani Sarkar, Shretha Dey Monty, Saddam Hossain | B.Sc. in EEE | Summer 2019 | Southeast |
| 9. | Design and Implementation of a Heartbeat Measurement Device using Arduino Microcontroller | Md. Tarikul Islam, Mafujur Hasan, Md. Haider Ali Sheaikh | B.Sc. in EEE | Summer 2019 | Southeast |
| 10. | Study of Analyzing the Prospects of Electricity Generation from Wave Energy Using Kaplan Turbine | Md. Jisan Mallik, Nozi Arafat Tipu, Md. Tarequl Islam Shohag | B.Sc. in EEE | Fall 2018 | Southeast |
| 11. | Prospect of Information and Communication Technology in Bangladesh through Optical Fiber Base | Asmaul Husna | B.Sc. in ETE | Fall 2018 | Southeast |
| 12. | Power Factor Improvement using FACTS Devices | Md. Abu Hasan, Md. Sadequr Rahman, Md. Mazharul Islam | B.Sc. in EEE | Fall 2018 | Southeast |
| 13. | Study of MATLAB Simulation of Vacuum Field Effect Transistor | Tasziid Parvez and Junayed Hasan | B.Sc. in EEE | Summer 2018 | Southeast |
| 14. | Sustainable Micro-Grid Design and Development with Multiple Renewable Sources | Mst. Sonia Aktar Risha | B.Sc. in EEE | Summer 2018 | Southeast |
| 15. | Designing and Implementation of a Dye Sensitized Solar Cell | Md. Shakil Ahmed, Almas Hossain, Md. Ashraful Ahammed Bhuiyan | B.Sc. in EEE | Summer 2018 | Southeast |
| 16. | Design and Implementation of a Low Cost Microcontroller Based Blood Pressure Measuring Device | Farhana Islam, Raisa Nowar and Montasir Ibne Jalil | B.Sc. in EEE | Spring 2018 | Southeast |
| 17. | Comparative Study of Algorithms of Microcontroller Based Blood Pressure Measuring Device | Bepu Hasan, Sharmin Binte Sharafatul, Mahmudul Hasan Rony | B.Sc. in EEE | Spring 2018 | Southeast |
| 18. | Design of a Hybrid Mini Grid Using Wind and Solar Power Plants in Kutubdia Island in Bangladesh | Mahfujur Rahman <i>et al.</i> | B.Sc. in EEE | Spring 2018 | Southeast |
| 19. | Relationship between Blood Sugar Level and Current | Israk Ahmad, Rakibul Islam, Abdullah Al Mahmud, Reyad Hossain | B.Sc. in EEE | Fall 2017 | Southeast |
| 20. | Relationship between Blood Current Level and Time | Siam Ibtisham Masrur, Md, Yousuf Ali Khan Shahed, Rabiul Hossain | B.Sc. in EEE | Fall 2017 | Southeast |
| 21. | Microcontroller based single phase Induction Motor Speed Control | Md. Minhazul Islam, Md. Forhad Uddin, Md. Tanveer Hossain | B.Sc. in EEE | Summer 2017 | Southeast |
| 22. | Heart Rate and Body Temperature Measurement System Using Microcontroller | Nazmus Sakib Bin Khair, Shwapan Mandal | B.Sc. in EEE | Summer 2017 | Southeast |
| 23. | Microcontroller Based PID Controller Design for DC motor Speed Control | Md. Hasibul Islam, Bishwajit Karmokar, Abdur Rakib Anik | B.Sc. in EEE | Spring 2017 | Southeast |
| 24. | Design and Implementation of a Single Phase Power Factor Improvement Plant | Md. Ifte Khairul Islam, Md. Golam Rabbani | B.Sc. in EEE | Spring 2017 | Southeast |
| 25. | MOSFET Structure Simulation using COMSOL Multiphysics | Sourov Kumar Das, Md. Harun Ar Rashid, Soniya Akter Keya | B.Sc. in EEE | Fall 2016 | Southeast |
| 26. | RFID Based Hospital Laboratory Automation System | Md. Arif, Showkat Ahmed, Md. Maruf Al Hasan | B.Sc. in EEE | Fall 2016 | Southeast |
| 27. | Design and Implementation of a Low Cost Automated Blood Flow Control Device Using Smart Phone for Biomedical Application | Md. Saddam Hossain, Shihab Uddin | B.Sc. in EEE | Fall 2016 | Southeast |
| 28. | Student Satisfaction Level of EEE Department of SEU | Md. Rumanul Islam, Nur Mohammad, Abdulla Al Noman | B.Sc. in EEE | Summer 2016 | Southeast |
| 29. | Prospects and Motivation of EEE Education in Bangladesh | Sohel Chandra Kar Mithun Kumar Das, Anik Das | B.Sc. in EEE | Summer 2016 | Southeast |
| 30. | Prospects of Wind-Diesel Hybrid Power Generation in Swandip Island in Bangladesh | Anik Ahmed, Md. Kamruzzaman, Rakibul Hasan | B.Sc. in EEE | Summer 2016 | Southeast |
| 31. | Study of different kinds of Lamps used in Bangladesh | Bijon Kumar Ghosh, Md. Ataur Rahman, Mitul Chakrabarty | B.Sc. in EEE | Spring 2016 | Southeast |
| 32. | Prospects, Challenges and Opportunities of Engineering Education in Bangladesh | Md. Mostafizur Rahman, Md. Sadiqul Islam, Monir Hossain | B.Sc. in EEE | Spring 2016 | Southeast |
| 33. | Improvement of Input Side Current of a Three Phase Cúk Rectifier and Investigation of Total Harmonic Distortion | Sikder Mohammad Faruk, Mir Mofajjal Hossain, Kanij Fatema | B.Sc. in EEE | Summer 2015 | Green |
| 34. | Design and Implementation of a Solar Based Street Light | SM Nazim Hossain, Rajib Sarkar, Md. Masud Rana, Md. Juel Rana | B.Sc. in EEE | Spring 2015 | Green |
| 35. | Design and Implementation of a Microcontroller Based Automatic Fire Alarm | Kazi Fazlur Rahman, Alomgir Kabir, Amrita Bain, Md. Omor | B.Sc. in EEE | Spring 2015 | Green |

| Sl # | Title of Thesis/ Research | Student Name(s) | Program | Completion Time | University |
|------|---|---|--------------|-----------------|------------|
| | | Faruk | | | |
| 36. | Design of 500 VA single phase 220/440V Step up Transformer | Md. Ashrafal Alam, Anisur Rahman, Md. Mosharraf Hossain, Md. Aman Ullah | B.Sc. in EEE | Fall 2014 | Green |
| 37. | Line follower Robot with Obstacle Detector | Sayed Al Mahmud, Syed Sabbir Rahman, Md. Mehedi Hasan, Md. Anarul Islam | B.Sc. in EEE | Fall 2014 | Green |
| 38. | Star Delta Control Panel for three-phase Induction Motor | Md. Shamim Sarker, Md. Mosiur Rahman, Md. Faridul Islam, Md. Liton Hossain | B.Sc. in EEE | Fall 2014 | Green |
| 39. | Optical Fiber Ground Wire Communication System Stringing Process on Existing Transmission Line | Shahnaz Akter, Kamrul Bari, Md. Ahsan Habib, Md. Romijul Hasan | B.Sc. in EEE | Spring 2014 | Green |
| 40. | Design and Implementation of a Digital Logic Trainer Board | Partha Biswas, Mithun Biswas | B.Sc. in EEE | Spring 2014 | Green |
| 41. | An Economical Electrical Design and Implementation of a High Rise Residential cum Commercial Building | Md Fayed Ahmed, Sumon Roy, Saroj Kumar Halder | B.Sc. in EEE | Summer 2013 | Green |
| 42. | Design of a Nuclear Power Plant | Md. Said Hossain, Md. Abdul Matin, Md. Redowanur Rhman, Md. Shaneaz Sakib | B.Sc. in EEE | Summer 2013 | Green |
| 43. | Industrial Automation Using Programmable Logic Controller | Sushanta Kumar Dey, Md. Delwar Hossain, Sonia Parvin, Md. Shariful Islam | B.Sc. in EEE | Summer 2013 | Green |
| 44. | Power Management System via Universal Serial Bus | Firoz Haider, Abdullah-Al-Mahmud, Najmul Hasan | B.Sc. in EEE | Summer 2013 | Green |
| 45. | Automatic Railway Gate Control System Design using PLC | Md. Nazmul Hasan, Sarmin Sajia, Md. Rabiyatur Rahman | B.Sc. in ETE | Fall 2011 | Presidency |
| 46. | Troubleshooting and Maintenance of a Diesel Generator | Md. Ferdous Mia, Md. Sohel Rana, Md. Rafiqul Islam, Rokibul Hasan, Md. Moazzem Hossain Bhuiyan | B.Sc. in EEE | Fall 2011 | Presidency |
| 47. | Signal Broadcasting in a Satellite TV Channel | Sudeb Som, Nasir Ahmmed, SK. Firozur Rahman, Arifur Rahman Siddiky, Md. Asabur Rahman | B.Sc. in EEE | Fall 2011 | Presidency |
| 48. | Fluid Flow Measurement Technique of a Power Plant or an Industry | H. M. Ali Mamun, Md. Rayhan Ali, Md. Abdulla Al-Imran, Md. Jahirul Islam, Md. Amirul Islam | B.Sc. in EEE | Fall 2011 | Presidency |
| 49. | Design and Performance Testing of a Low Cost Synchronous Machine | Debashis Das, Rafiqul Islam, Md. Roman Sheikh, Md. Abdul Mannan Hossain, Selim Reza | B.Sc. in EEE | Summer 2011 | Presidency |
| 50. | Design and Implementation of a Microcontroller Based Elevator Control System | Mohammad Maidul Haque, Mohammad Abdur Rauf, Md. Mazharul Islam Khan, Md. Atiqur Rahaman, Md. Hafizur Rahman Khan, Subrato Kundu | B.Sc. in EEE | Summer 2011 | Presidency |
| 51. | Design and Analysis of Inductor and Capacitor Banks for Electrical Circuits Laboratory | M. Jafar Iqbal, Ariful Imam, M. Abdullah Al Mahmud, Nadira Yeasmin | B.Sc. in EEE | Summer 2011 | Presidency |
| 52. | Design of A 650 kVA Electrical Substation with Automatic Standby Generator for an Apartment Building | Muhammad Anamul Haque Akanda, Md. Saiful Islam, Md. Zakirul Islam, Ashraf Hossain | B.Sc. in EEE | Summer 2011 | Presidency |
| 53. | Study of Protective Devices and Maintenance of a Substation | Md. Suman Al Reza, Md. Shoel Pervez, Zuel Rana, S.M. Atiqur Rahman, Kakali Bhowmik | B.Sc. in EEE | Summer 2011 | Presidency |
| 54. | Design and Analysis of an Instant Power Supply | Md. Shohel Rana, M. Mosharraf Alam, Alamgir Hossain, Shakil Rana Akand, Mst Aeysha Akhter | B.Sc. in EEE | Spring 2011 | Presidency |
| 55. | Design of Integrated Radio Receivers in BiCMOS Technology | Somesh Majumder | B.Sc. in ETE | Fall 2010 | Daffodil |
| 56. | Design of a 630 kVA Electrical Substation for an Apartment | Sabekun Nahar Liza | B.Sc. in ETE | Spring 2010 | Daffodil |
| 57. | Microcontroller Based Display System Design | Md. Anayet Rabby, Md. Anwar Parvez, Mostayanul Gofur Tarik | B.Sc. in ETE | Summer 2009 | Daffodil |
| 58. | Traffic Light Control System Design using PLC | Md. Ahasanul Kabir, Md. Arifur Rahman, Abdullah-Al-Mamun | B.Sc. in ETE | Summer 2009 | Daffodil |
| 59. | Operation and Maintenance GSM Core Network in GP | Md. Mohib Ullah Talukder | B.Sc. in ETE | Fall 2008 | Daffodil |
| 60. | Components Sorting based on Height using Programmable Logic Controller | Md. Nazmul Ahmed, S. M. Khalid Hasan, Sultana Razia | B.Sc. in ETE | Fall 2008 | Daffodil |
| 61. | ISP Server Setup using Red Hat Linux in TelNet | Md. Anwar -Ul- Karim Akon | B.Sc. in ETE | Fall 2008 | Daffodil |

| Sl # | Title of Thesis/ Research | Student Name(s) | Program | Completion Time | University |
|------|--|--|--------------|-----------------|------------|
| 62. | Fault Management in GSM Network | Md. Ariful Islam | B.Sc. in ETE | Spring 2008 | Daffodil |
| 63. | Designing a Traffic Light Controller Using Hardware Description Language | Sohel Rana Chowdhury, Hasan Shahriar Kabir, Sumaiya Nargis | B.Sc. in ETE | Spring 2008 | Daffodil |
| 64. | Internet and Intranet Connectivity Through Wireless Local Area Network | Md. Omar Ali, Ikhtiar Uddin Ahmed | B.Sc. in ETE | Spring 2007 | Daffodil |
| 65. | Building Linux Cluster | Azam Sami <i>et al</i> | B.Sc. in COE | Spring 2003 | AIUB |
| 66. | Simple Processor Design using VHDL | Abdur Rahman <i>et al</i> | B.Sc. in COE | Spring 2003 | AIUB |
| 67. | PC Based Digital Notice Board Design | Ahmed Ullah <i>et al</i> | B.Sc. in COE | Fall 2002 | AIUB |
| 68. | Data Acquisition System Design | Arifa Rahman, Nasrin Sultana | B.Sc. in COE | Fall 2002 | AIUB |
| 69. | Design and Simulation of Digital Circuits using VHDL | Saidul Islam Bhuiyan | B.Sc. in COE | Fall 2000 | AIUB |

Funded Project/Development Works/Conferences:

1. Received Gold, Silver, Bronze and Other Sponsors of TK10,00,000.00 (taka ten lacs only) from Btrac and Dell Technologies, Energypac Electronics, Kazi Farms etc. for organizing the 22nd International Conference on Computer and Information Technology (**ICCIT2019**) organized by the EEE and CSE Departments of Southeast University on 18-20 Dec. 2019.
2. Received Special Fund Grants of TK3,00,000.00 (taka three lacs only) from ICT Division of ICT Ministry of the Government of the People's Republic of Bangladesh for organizing the 22nd International Conference on Computer and Information Technology (**ICCIT2019**) organized by the EEE and CSE Departments of Southeast University on 18-20 Dec. 2019.
3. Received Special Fund Grants of TK2,00,000.00 (taka two lacs only) from University Grants Commission of Bangladesh for organizing the 22nd International Conference on Computer and Information Technology (**ICCIT2019**) organized by the EEE and CSE Departments of Southeast University on 18-20 Dec. 2019.
4. Presented a research proposal on "Design and Implementation of a Low-Cost Blood Pressure Measuring Device" to the Institute of Research and Training (IRT), Southeast University. This may worth of taka 64 thousand (appx).
5. Prepared the detailed proposals for the laboratory development and submitted it to the SEU authority for complete laboratories to be set-up in EEE Department, SEU. This may worth of taka 65 millions (appx). Already purchased Analog and Digital Electronics, Energy Conversion, Telecommunication, Control Systems and Microprocessor Labs Equipment.
6. Prepared the proposals and summarized the submitted quotations for the complete laboratories to be set-up in EEE Department, Green University of Bangladesh (GUB). Also procured, installed and commissioned all the purchased laboratory equipment. This is worth of taka 55 millions (appx).
7. Procured, designed, tested and demonstrated the experiments in EEE Department, DIU using the Electrical Machine Laboratory; equipment purchased from BLC International, Dhaka, Bangladesh. This is worth of taka 0.75 millions.
8. Procured, designed, tested and demonstrated the experiments in ETE Department, DIU using the TIMS Telecommunication, FPGA and DSP trainer of Emona, Australia and also the DSP trainer of Midas Engineering Company, South Korea. This is worth of taka 0.50 millions.
9. Procured, designed, tested and demonstrated the experiments in ETE Department, DIU using MDA-ASIC2 FPGA trainer of Xilinx VHDL and Verilog programming by Midas Engineering Co, South Korea. This is worth of taka 0.15 millions.
10. Procured, designed, tested and demonstrated the 8086 microprocessor and assembly language programming laboratory experiments in ETE Department, DIU using the equipment of Midas Engineering Company, South Korea and K & H, Taiwan. This is worth of taka 0.35 millions.
11. Procured, designed, tested and demonstrated the electrical circuits (both DC and DC), analog and digital electronics, computer interfacing, measurement and instrumentation laboratory experiments in EEE and ETE Department, DIU from home and abroad. This is worth of taka 0.17 millions.
12. Procured, designed, tested and demonstrated the 8086 microprocessor and assembly language programming laboratory experiments in EEE Department, AIUB using the equipment of Midas Engineering Company, South Korea and K & H, Taiwan. This is worth of taka 0.48 millions.
13. Procured, designed, tested and demonstrated the control systems laboratory experiments in EEE Department, AIUB, using the equipment such as, PLC, analog and digital motor control, AC and DC servo, PID controller, robot arm controller of LJ Technicals, UK. This is worth of taka 0.40 millions.
14. Procured, designed, tested and demonstrated the electrical circuits (both DC and DC), analog and digital electronics laboratory experiments in EEE and CoE Department, AIUB from home and abroad. This is worth of taka 1.54 millions.
15. Procured, designed, tested and demonstrated the electrical machines laboratory experiments in AIUB using the equipment of Lab Volt Company, Canada. This is worth of taka 12.5 millions.

Academic Awards and Scholarships:

- (a) Achieved the Bangladesh Education Leadership Awards 2017 from South Asian Partnership Summit-2017 at the Hotel Le Meridien, Dhaka on 29 October 2017 from Mr. Zunaid Ahmed Palak, Honorable State Minister for Information and Communication Technology Ministry, Government of the Peoples' Republic of Bangladesh. Awarded a Certificate as the Best Professor in Electrical Engineering which is the highest stature that are

represented to individuals who have surpassed several levels of excellence, set an example of being a role model, and showed exemplary Leadership in their professional fields.

- (b) Obtained Centre of Excellence (CoE) Research Fellowship of Japan's Government, Hiroshima University, Higashi-Hiroshima, Japan.
- (c) Obtained Dhaka Board Scholarships for meritorious result in HSC for four years during B.Sc. Engg. (in EEE) Study in BUET
- (d) Obtained Merit Based Scholarship in all terms of 2nd, 3rd and 4th level of B. Sc. Engg. (in EEE) study in BUET to be among the top twenty students list based on CGPA of that particular term.
- (e) Obtained Dean's Scholarship in 3rd and 4th level of B. Sc. Engg. (in EEE) study in BUET to be among the top ten students list based on CGPA of that particular level.

Training Received:

- [1] Participated in an International Workshop on “ABET Assessment Process of Capstone Design Project” organized by the EEE Department of Southeast University on 12 September 2020 through Zoom Platform. Resource person was Dr. Kala Meah, Associate Professor of York College of Pennsylvania, USA.
- [2] Participated in an International Webinar on “Building a Sense of Academic Community in Online Courses: Tips and Techniques from Experience” organized by Southeast University on 5 September 2020 through Zoom Platform. Resource person was Prof. Patrick Dougherty, Ed.D., Dean of Academic Affairs, Director of the Active Learning and Assessment Center, Akita International University, Japan.
- [3] Participated in a 2-day-long online “International Symposium on Quality Assurance in Engineering Education through Accreditation” on 26-27 August 2020 organized by Board of Accreditation for Engineering and Technical Education, Bangladesh through Zoom platform.
- [4] Participated in an IEEE International Webinar on “Role of the Smart Grid in Facilitating the Integration of Renewables” organized by Galgotias University, India on 27 July 2020 through Webex Platform.
- [5] Participated in an IEEE International Webinar on “Artificial Intelligence on Cloud Computing and IoT” organized by Galgotias University, India on 18 July 2020 through Webex Platform.
- [6] Participated in a day-long Workshop on “Online Classroom Teaching through Digital Media” organized by Southeast University on 27 June 2020 through Zoom Platform.
- [7] Participated in the day-long IEEE Congress organized by the IEEE Bangladesh Section at GP House, Bashundhara, Dhaka on 25 December 2019. Two IEEE Fellows and renowned speakers gave talks.
- [8] Participated in a 2-day-long Workshop on Digital Access to Research (DAR) organized by United Nations Technology Bank for the Latest Developed Countries (UNTB/LDC) at URP Department, BUET on 30-31 October 2019.
- [9] Participated in a day-long, hands-on orientation session for new program evaluators with Prof. Ir. Megat Johari bin Megat Mohd Noor, Chairman, EAC and Member, Board of Engineers Malaysia; Prof. Ir. Dr. Hjh Siti Hawa Hamzah, Associate Director, Engineering Accreditation Department, Board of Engineers Malaysia (BEM), as the resource persons. This was organized by BAETE on 9 October 2019.
- [10] Participated in a half-day Workshop on “RISC-V Technology and SiFive Tutorial” on 31 August, 2019 (Saturday) organized by IEEE Bangladesh Section and EEE Department, BUET and held at BK-IAC, Department of CSE, BUET, Dhaka. The hands-on tutorial was conducted by Aijaz Qaisar, Sr. Marketing Communication Manager, Anand Bariya, VP of Engineering, and Rajesh Varadhrajan, Director of IP Engineering, all from SiFive as resource persons.
- [11] Participated in a day-long, Hands-on Workshop on OBE with emphasis on implementing complex engineering problem solving (WP) and complex engineering activities (EA) taking into account the Knowledge Profiles (WK) of the 12 Engineering Graduate Attributes (WA) as per guidelines of IEA. This was organized by BAETE on 19 June 2019. Resource persons were Prof. Ir. Dr. Hjh Siti Hawa Hamzah and Ir. Liew Chia Pao, Associate Directors, Engineering Accreditation Department, Board of Engineers Malaysia (BEM).
- [12] Participated in a lecture program on “Smart City Campaign for Bangladesh” organized by IEEE Bangladesh Section held on 30 May 2019 at Robi Training Center, Gulshan 1. Lecture was given by Prof. Dr. Saifur Rahman, Virginia Tech. USA, Prof. Dr. Khan Arif Wahid, University of Saskatchewan, Canada and Dr. Asif Islam Khan, Georgia Tech. USA.
- [13] Participated in a 2-day-long “International Symposium on Quality Assurance in Engineering Education through Accreditation” on 13-14 March 2019 organized by Board of Accreditation for Engineering and Technical Education, Bangladesh. The workshop (BAETE) at Radisson Blu Dhaka Water Garden, Dhaka 1206, Bangladesh.
- [14] Participated in a day-long Program on “IEEE SSIT Bangladesh Chapter Workshop On Humanitarian Technology & Sustainable Development 2018,” on 10 December 2018 organized by the IEEE Bangladesh Section SSIT BD Chapter. Resource Persons were Prof. Shaikh Anowarul Fattah, EEE Dept. BUET, Prof. Mohammad Shariful Islam, CE Dept. BUET and Paul M. Cunningham, President, IEEE Society on Social Implications of Technology (SSIT) and Chair, IEEE Humanitarian Activities Committee (HAC).
- [15] Participated in a half-day workshop on “Curriculum Development on Brain Science and Engineering” on 18 December 2018 organized by Southeast University. The workshop was conducted by Engr. SM Mahabub Alam, MD and CEO, Massive Star Studio Ltd., Dhaka, Bangladesh as a resource person.
- [16] Participated in a day-long workshop on “BAETE Accreditation and Outcome Based Engineering Education” on 1st December 2018 organized by EEE Department of Southeast University. The workshop was conducted by Prof. Dr. Arshad M. Chowdhury, Dean, School of EPS, North South University (NSU), Dhaka, Bangladesh as a resource person.
- [17] Participated in a day-long Program on “IEEE Members Congress 2018,” on 30 November 2018 organized by the IEEE Bangladesh Section Chapter. Resource Persons were Prof. Celia Shahnaz and Prof. Shaikh A Fattah, EEE Dept. BUET.

- [18] Participated in a day-long Program on “IEEE Bangladesh Section Industrial Application Society Summit 2018,” on 24 November 2018 organized by the IEEE Bangladesh Section IAS BD Chapter. Resource Persons were from GP, Robi, PGCB, EnergyPack, Ericsson and BUET.
- [19] Participated in 3 day-long Training Program on “Research Capacity Building with Focus on the Use of SPSS,” from 28-30 October 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. Resource Person was Mr. Md. Shahidul Islam, Lecturer of Economics Department, Southeast University (SEU).
- [20] Participated in a half-day Workshop on “Effective Leadership and Cordial Teamwork in Enhancing Academic Research and Service Excellence of Southeast University,” on 25 October 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. Resource Person was Prof. H. M. Jahirul Haque, Vice Chancellor, ULAB, Dhaka.
- [21] Participated in 6 day-long Workshops on “Learning Taxonomy and Introduction to OBE for BSc in EEE Program,” “Development of OBE Curriculum with CO, PO and PEO Mapping,” “Tools for Teaching-Learning Assessment for CO-PO Achievement,” “Tools for OBE Evaluation,” “Capstone Project: Design, Assessment and Evaluation,” “Continual Quality Improvement (CQI) and Writing Self-Assessment Report (SAR) for OBE Based Accreditation,” on 14, 15, 17, 18, 20 and 22 October 2018 organized by the Self-Assessment Committee (SAC) of EEE Department, Southeast University. Resource Person of the workshop was Prof. Dr. Md. Abdur Rahman, Professor of EEE Dept. and Associate Dean, Faculty of Engineering, American International University Bangladesh (AIUB) and Evaluator Panel Member of BAETE.
- [22] Participated in a day-long National Conference on “Brain Engineering (Leaders Conference, Part II)” on 13 October 2018 organized by American International University Bangladesh (AIUB). Key-note Speaker of the Conference was Engr. SM Mahabub Alam, MD & CEO, Massive Star Studio Ltd.
- [23] Participated in a day-long National Conference on “Enhancing Quality of Higher Education” on 22 September 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. There were eight papers presented on quality of higher education by eight renowned educationists of the country.
- [24] Participated in a day-long workshop on “Outcome Based Education” on 9 August 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. The workshop was conducted by Prof. Dr. Arshad M. Chowdhury, Dean, School of EPS, North South University (NSU), Dhaka, Bangladesh as a resource person.
- [25] Participated in a day-long program on “IEEE mini POCO 4.0” on 3rd August 2018 organized by IEEE Bangladesh Section at EEE Department, BUET, Dhaka. The key-note speakers were Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section and Prof. Dr. Sheikh Anowarul Fattah, Director, Institute of Nuclear Power and Energy, BUET.
- [26] Participated in a half-day workshop on “Ethics in Teaching and Research” on 26 July 2018 organized by Southeast University. The workshop was conducted by Prof. Dr. Anisuzzaman, Dhaka University and Prof. Dr. AB Mirza Azizul Islam, BRAC University as the resource persons.
- [27] Participated in 5-day-long Training Program on “Teaching-Learning, Curriculum and Quality Assurance” from 8-12 July 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. The training was conducted by Prof. Dr. M. Mozahar Ali, Quality Assurance Specialists, HEQEP-UGC and Director, Graduate Training Institute, Bangladesh Agricultural University as a resource person.
- [28] Participated in a day-long Workshop on “Experience-Sharing Session for Program Evaluators” organized by BAETE for the Program Evaluators of BAETE at IEB, Dhaka on 3 May 2018. The Sharing Sessions were conducted jointly by Er. Prof. Kai Sang Lock, WA Mentor to BAETE from IES and Prof. Dato' Ir. Dr. Wan Hamidon Wan Badaruzzaman, WA Mentor to BAETE from BEM. In addition, Prof. Dr. Salekul Islam, Head, Dept., of CSE, UIU and Prof. Dr. Anisul Haque, Dept. of EEE, EWU also discussed and presented various issues as the resource persons.
- [29] Participated in a Seminar on “Enabling the positive use of Artificial Intelligence for all” organized by the Post and Telecommunications Division under the Ministry of Post, Telecommunications and Information Technology on 17 May 2018 at the Osmani Memorial Hall. Prof. Dr. Engr Md. Yunus of CSE Department, BUET presented the key-note speech. Besides, three more papers on AI were presented by other speakers from software industry and university.
- [30] A day-long Workshop on “Experience-Sharing Session for Program Evaluators” organized by BAETE for the Program Evaluators of BAETE at IEB, Dhaka on 15 February 2018. Resource persons were Prof. Dr. Arshad M. Chowdhury, Dean, School of EPS, North South University (NSU), Dhaka, Bangladesh and Prof. Dr. Hasan Sarwar, Professor, CSE Department, United International University (UIU), Dhaka, Bangladesh.
- [31] A day-long Workshop on “Towards Full Signatory Status of the Washington Accord (WA): Outcome Based Education (OBE)” and “Evaluation Panel Training: Conduct of Accreditations” organized by BAETE for the Program Evaluators at IEB, Dhaka on 13 December 2017. Resource persons were Prof. Ir. Dr. Wan Hamidon Wan Badaruzzaman, WA Mentor of Bangladesh and Director of EAD, BEM and Prof. Ir. Dr. Siti Hawa Hamzah, WA Mentor of Bangladesh and Professor of Civil Engineering, UTM.
- [32] A day-long Workshop on “IEA/Washington Accord (WA) Graduate Attributes” and “Implementation of Outcome Based Education (OBE)” organized by BAETE for the Program Chairman and Directors at IEB, Dhaka on 12 December 2017. Resource persons were Prof. Ir. Dr. Wan Hamidon Wan Badaruzzaman, WA Mentor of Bangladesh and Director of EAD, BEM and Prof. Ir. Dr. Siti Hawa Hamzah, WA Mentor of Bangladesh and Professor of Civil Engineering, UTM.
- [33] Participated in a 2-day-long Workshop on “Time, Stress and Change Management” on 30 November and 7 December 2017 organized by Southeast University. The workshop was conducted by Mr. Tobarak Hossain Bhuiyan, MD and CEO, Prime Bank Investment Limited as resource person.
- [34] Participated in a day-long Workshop on “Preparation of Five-Year Improvement Plan of Academic Departments” on 02 November 2017 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. The workshop was conducted by Prof. Dr. Sanjoy Kumar Adhikary, Head, Quality Assurance Unit, HEQEP-UGC and Dr. Ahmed Tazmeen, Quality Assurance Specialist, HEQEP-UGC as resource persons.
- [35] Participated in a day-long Workshop on “Evidence Based On-site Assessment during Accreditation Visit” organized by BAETE for the Program Evaluators at IEB, Dhaka on 19 October 2017. Resource person was Er. Prof. Dr. Kai Sang Lock, WA Mentor of Bangladesh and Professor at Singapore Institute of Technology.

- [36] Participated in a day-long Workshop on “Preparation for Outcome Based Accreditation” organized by BAETE for Program Chairman and Directors at IEB, Dhaka on 17 October 2017. Resource person was Er. Prof. Dr. Kai Sang Lock, WA Mentor of Bangladesh and Professor at Singapore Institute of Technology.
- [37] Participated in a half-day Training Session on “Ethics in Teaching and Research” on 21 September 2017 organized by Southeast University (SEU), Dhaka, Bangladesh. The training session was conducted by Dr. Salehuddin Ahmed, Professor, BRAC Business School and Ex-Governor, Bangladesh Bank as resource person.
- [38] Participated in a half-day Training Session on “Roles, Responsibilities and Ethics of University Teachers” on 21 August 2017 organized by Southeast University (SEU), Dhaka, Bangladesh. The training session was conducted by Dr. M. Shamsher Ali, Professor Emeritus, SEU as resource person.
- [39] Participated in a Seminar on “Environmental Aspects of Rampal Power Plant: Myth vs Reality” organized by EE Division, IEB, Dhaka on 21 May 2017. Dr. Engr Kazi B. Kabir, Assistant Professor, Chemical Engineering Department, Bangladesh University of Engineering and Technology (BUET) presented the key-note speech.
- [40] Participated in a Seminar on “Problem Based Learning (PBL): An Efficient Method to Enhance the Quality of Textile Engineering Education” organized by TE Division, IEB, Dhaka on 17 May 2017. Dr. Engr Lal Mohan Baral, Associate Professor, Textile Engineering Department, Ahsanullah University of Science and Technology (AUST) presented the key-note speech.
- [41] Participated in a Seminar on “Power Development: BBIN Scenario” organized by IEB on 16 May 2017 at its seminar hall. Chief Engr Bikash Dewan of BPDB presented the key-note speech. Besides, two papers on smart grid and solar power tracker were presented by two speakers from Tripura, India.
- [42] Participated in a Workshop on “Introduction of New Accreditation Manual of BAETE for undergraduate Engineering Programs” organized by BAETE at IEB, Dhaka on 18 April 2017. Resource persons were Prof. Dr. Anisul Haque, Department of EEE, East West University and Prof. Dr. Salekul Islam, Department of CSE, United International University.
- [43] Participated in a half-day workshop on “SWOT Analysis and Strategic Plan” on 11 March 2017 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. The workshop was conducted by Prof. Dr. ANM Meshquat Uddin, Vice Chancellor, Southeast University (SEU) as resource person.
- [44] Participated in a half-day Training Session on “VLSI Design Course for Undergraduate Students” on 16 January 2017 organized by IEEE Bangladesh Young Professional Section at Engineering Faculty of American International University-Bangladesh (AIUB), Dhaka. The training was conducted by Prof. Syed Mahfuzul Aziz, Department of EEE, University of South Australia as resource person.
- [45] Participated in a day-long program on “IEEE mini POCO 2.0” on 12 November 2016 organized by IEEE Bangladesh Section at Hotel Swiss Garden, Banani, Dhaka. The key-note speakers were Prof. Dr. Saiful Islam, VC, BUET and Prof. Dr. M. Rizwan Khan, VC, UIU.
- [46] Participated in a day-long Workshop on “Generate Ideas for Research and Development Projects Leading to Commercial Success” on 2nd November 2016 organized by IEEE Bangladesh Section at Engineering Faculty of American International University-Bangladesh (AIUB), Dhaka. The workshop was conducted by Mr Sudeendra Koushik and Ms. Pragya Dixit, renowned speakers of IEEE Bangalore Section, India as resource persons.
- [47] Participated in a half-day Training Program on “Scientific Method of Report Writing” on 18 August 2016 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. The training was conducted by Prof. Dr. Sanjoy Kumar Adhikary and Prof. Dr. M. Abul Kashem, Quality Assurance Specialists of HEQEP-UGC as resource persons.
- [48] Participated in a day-long Training Program on “Leadership in Education and Effective Ways of Teaching” on 18 May 2016 organized by Southeast University. The training was conducted by Zach Meese and Keith Shurlock, Consultants of Global Education and Training, USA as resource persons.
- [49] Participated in a half-day Training Program on “The Role and Responsibilities & Ethical Principles of University Teachers” on 11 May 2016 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. The training was conducted by Prof. Dr. Sanjoy Kumar Adhikary and Prof. Dr. M. Abul Kashem, Quality Assurance Specialists of HEQEP-UGC as resource persons.
- [50] Participated in a two-day long short course on “Full Custom Very Large Scale Integrated Circuit Design Using Cadence Tools” on 19-20 February 2016 organized by HEQEP Sub-Project # 3817 under UGC and implemented by Department of EEE, BUET.
- [51] Participated in a half-day National Seminar on “Traffic Congestion in Dhaka City: Issues, Challenges and the Way Forward” organized by the Civil Engineering Division of IEB on 17 January 2016 at its seminar hall. Key-note speaker was Prof. Dr. Md. Mizanur Rahman, Department of CE, Bangladesh University of Engineering and Technology (BUET).
- [52] Participated in a half-day National Seminar on “The Power Development Trends in Bangladesh, Difficulties and Prospects” organized by the EE Division, IEB, Dhaka on 11 January 2016. Key-note speaker was Muhammed Fazlur Rahman, Professor and Head of Energy System at the University of New South Wales, Australia.
- [53] Participated in a half-day National Seminar on “Today’s Industry Applications of Power Electronics and update on IEEE’s Industry Applications Society” jointly organized by the IEEE Bangladesh Section and Electrical Engineering Division of IEB on 18 December 2015 at its seminar hall. Key-note speaker was Mr. David B. Durocher, President, IEEE Industry Applications Society.
- [54] Participated in a half-day workshop on “Strengthening Academic Leadership of Department Chairpersons and Program Coordinators of Green University of Bangladesh” on 28 July and 11 August 2015 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, GUB.
- [55] Participated in a half-day workshop on “Organizational Working Environment: The Roles of Values and Morals” on 27 May 2015 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh (GUB).
- [56] Participated in a National Seminar on “Nuclear Energy: Prospects and Issues” organized by Mechanical Engineering Division of the Institution of Engineers, Bangladesh (IEB) held on 13 May 2015. The key-note speaker was Engr. M. Ali Zulquarnain, Member (Planning), Bangladesh Atomic Energy Commission, Dhaka.

- [57] Participated in a day-long National Seminar on “Engineering Education in Public and Private Universities: Bangladesh Context” organized by the Institution of Engineers, Bangladesh (IEB) on 30 August 2014 at its auditorium. Key-note speaker of the seminar was Prof. Dr. Engr. Ainun Nishat, Emeritus Professor and former Vice Chancellor of BRAC University. Education Minister was present as the Chief Guest in the morning session and UGC Chairman was present as the Chief Guest in the evening session.
- [58] Participated in a day-long workshop on “Academic and Management Leadership Training” on 24 August 2014 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh and Dr. Mohammad Farashuddin, Former Governor, Bangladesh Bank and President of East West University, Bangladesh.
- [59] Participated in a two-day workshop on “VLSI Design Using Cadence Tools” on 19-20 June 2014 jointly organized by Department of EEE, BUET, Cadence Design Systems Inc. USA and sBIT Inc.
- [60] Participated in a half-day workshop on “Research Proposal Writing” on 25 November 2013 organized by Green University Center for Research and Development and Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh and Prof. Dr. A. K. Enamul Haque, United International University, Dhaka, Bangladesh.
- [61] Participated in a half-day workshop on “Strengthening Presentation Skills” on 21 September 2013 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh and Mr. ASM Shamim Miah, Assistant Professor, Department of English, Green University of Bangladesh.
- [62] Participated in a half-day workshop on “Learner-Centered Syllabus Writing” on 7 September 2013 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh.
- [63] Participated in a half-day workshop on “Art of Questioning and Grading of Students” on 17 August 2013 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh.
- [64] Participated in a half-day workshop on “Interactive Teaching and Learning” on 15 June 2013 organized by Green University Center of Excellence for Teaching and Learning and conducted by Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh.
- [65] Participated in two half-day workshops on “Leveraging ICT for growth, Employment and Governance” & “Information Technology Engineers Examination (ITEE)” on 8 June 2013 organized by University Grants Commission of Bangladesh and conducted by Mr. Md. Rezaul Karim, Project Director, LICT, Dr. SK. Amzad Hossain, Project Director, ITEE Management Project and Mr. Hideo Hoya, Chief Adviser, JICA ITEE Project.
- [66] Participated in a half-day tutorial on “Extraction of interface trap densities in High-Mobility Semiconductor MOSFETs” organized jointly by IEEE Electron Device Society and Solid State Circuits Society Bangladesh Chapters, held at Department of EEE, Bangladesh University of Engineering and Technology (BUET) on 1 July 2012. The tutorial was conducted by Prof. Dr. Anisul Haque, Editor, IEEE Transactions on Electron Devices and Professor and Chairperson of EEE Department, East West University, Dhaka, Bangladesh.
- [67] Participated in a two-day long work shop on “Outcome-based Education and Accreditation Criteria” organized by Board of Accreditation for Engineering and Technical Education (BAETE) on 9-10 June 2012. The workshop was conducted by Prof. Dr. Muhammad Harunur Rashid, University of West Florida, FL, USA.
- [68] Participated in a half-day tutorial on “Design Techniques and CMOS Implementation of Low Noise Amplifier (LNA)” organized jointly by IEEE Electron Device Society and Solid State Circuits Society Bangladesh Chapters, held at Department of EEE, Bangladesh University of Engineering and Technology (BUET) on 18 May 2012. The tutorial was conducted by Prof. Dr. S. S. Jamuar, University of Malaya, KL, Malaysia.
- [69] Participated in a day-long tutorial on “Heterostructure FETs: Modeling, Characterization and Analysis” organized jointly by International Conference on Electrical and Computer Engineering and IEEE Electron Device Society Bangladesh Chapter, held at Bangladesh University of Engineering and Technology (BUET) on 21 December 2010. The tutorial was conducted by Prof. Dr. A. F. M. Anwar, University of Connecticut, USA.
- [70] Participated in a day-long training program on “Faculty Development Program” offered by the Department of English, Presidency University, Dhaka, and conducted by two guest speakers from USA in July 2010.
- [71] Participated in 3-day workshop on “Research and Development Methods for Science and Engineering” offered by the Department of Computer Science and Engineering, University of Liberal Arts Bangladesh (ULAB), Dhaka, Bangladesh and conducted by Prof. M. Kaykobad of CSE Department of BUET in March 2009.
- [72] Participated in a 3-day-long Short Course on “Advanced Digital Design using Verilog HDL” offered by the Institute of Information and Communication Technology (IICT), Bangladesh University of Engineering and Technology (BUET), Dhaka in March 2006.
- [73] Participated in a day-long Training on “Office Management Systems” offered by the Rapport Bangladesh and organized by the American International University Bangladesh in April 2000.

Conduction of Workshops:

- [1] Conducted a half-day online Faculty Workshop on “Pathway to BAETE Accreditation based on OBE for Presidency University” for the Faculty Members of the Engineering School of Presidency University, Dhaka Bangladesh on 14 August 2020 through Zoom platform.
- [2] Conducted a two-day online Faculty Workshop on “Outcome Based Education for BAETE Accreditation” for the Faculty Members of Presidency University, Dhaka Bangladesh on 30 July and 3 August 2020 through Zoom platform.
- [3] Conducted a half-day online workshop on “Capstone Design Project and Internship Report Preparation and Presentation” for the Students of EEE Department, Southeast University, Dhaka, on 12 June 2020 as the Resource Person organized by the EEE Department through Google Meet platform.

- [4] Conducted a two-day-long workshop on “Outcome Based Education” for the Faculty Members of EEE Department of Stamford University Bangladesh on 8 & 9 February 2020 at Siddheshwary Campus, Dhaka, Bangladesh.
- [5] Conducted a two-day-long workshop on “Outcome Based Education” for the Heads of various Departments and SACs of Rajshahi University of Engineering and Technology (RUET) during 24-25 January 2020 organized by the Institutional Quality Assurance Cell (IQAC), RUET, Rajshahi, Bangladesh.
- [6] Conducted a half-day workshop on “ASIC Design using VHDL” for the Students of EEE Department, Southeast University, Dhaka, Bangladesh on 31 December 2019 as the Resource Person organized by the IEEE SEU Student Branch.
- [7] Conducted eight day-long workshops on “Outcome Based Education: An Introduction” for the Faculty Members of ten Departments of Southeast University (SEU), Dhaka, Bangladesh on 19, 23-26, 29-30 September and 1st October 2019 as the Principal Resource Person organized by the Institutional Quality Assurance Center (IQAC) of SEU.
- [8] Conducted a day-long workshop on “Outcome Based Education towards BAETE Accreditation” for the Faculty Members of EEE/CSE/ETE Departments of International Islamic University Chittagong (IIUC), Kumira, Chattogram, Bangladesh on 27 July 2019 organized by the Faculty of Science and Engineering of IIUC.
- [9] Conducted a half-day workshop on “Outcome Based Education: From Course Mapping to Assessment and Evaluation” for the Faculty Members of EEE Department of International University of Business Agriculture and Technology (IUBAT) on 22 June 2019 at IUBAT Campus, 4 Embankment Drive Road, Sector 10, Uttara Model Town, Dhaka, Bangladesh.
- [10] Conducted a day-long workshop on “Introduction to OBE for BSc in Electrical and Electronic Engineering Program” for the Alumni, Employers and Parents. It was organized by the Self-Assessment Committees (SAC), EEE Department, Southeast University on 16 October 2018.
- [11] Conducted a day-long workshop on “Introduction to OBE for BSc in Electrical and Electronic Engineering Program” for the existing students and organized by SAC of EEE Department, Southeast University on 16 October 2018.
- [12] Conducted a half-day workshop on “Outcome Based Education: From Introduction to Course Mapping” for the Heads and Members of the Self-Assessment Committees (SAC) and various Department Chairs of International Islamic University Chittagong (IIUC), Kumira, Chittagong on 18 February 2018. The workshop was organized by the Institutional Quality Assurance Cell (IQAC) of IIUC.
- [13] Conducted a day-long workshop on “Programmable Logic Controller (PLC)” for the ECE Department students of Presidency University on 18 November 2011.
- [14] Conducted a day-long workshop on “Applications of MATLAB in Electrical Engineering” for the ECE Department students of Presidency University on 28th October 2011.
- [15] Conducted a day-long workshop on “Programmable Logic Controller (PLC)” for the ECE Department students of Presidency University on 1st October 2011.

Presentation at Seminars and Others:

- [1] Presented a Seminar on “Evolution of Novel Device Structures” for the Students of EEE Department of Southeast University, Dhaka, Bangladesh on 29 December 2019 as the Resource Person organized by the IEEE SEU Student Branch.
- [2] Presented “Post-Self Improvement Plan of EEE Department,” in the Closing Workshop on 31 October 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University. Chief Guest was Prof. Dr. Sanjoy Kumar Adhikary Quality Assurance Specialists and Head of HEQEP-UGC.
- [3] Presented a Seminar on “Higher Education in Bangladesh: Challenges and Prospects” for the students of Kushtia Government Polytechnic Institute and Jhenidah Government Polytechnic Institute on 8-9 May 2018.
- [4] Presented a lecture on “21st Century Challenges in Teaching and Learning (ICT in Higher Education)” in a two day-long Workshop on Teaching and Learning at GUB: Step towards Quality & Excellence from 6-8 January 2015 organized by Green University Center of Excellence for Teaching and Learning (GUECTL) for newly recruited teachers at different departments of Green University of Bangladesh.
- [5] Conducted a 5-day program on “Theory and Practical Training courses of Telecommunication Engineering Laboratory Modules of LJ Create, UK” as an Expert on behalf of the BATTCO Engineering, Gulshan, Dhaka for the Instructors and Laboratory Technicians of Electrical, Electronics and Communication Engineering Department of Military Institute of Science and Technology, Mirpur Cantonment, Dhaka, Bangladesh on 22, 23, 26 & 29 July and 2nd August 2012. Have designed and demonstrated experiment and operation of the equipment, designed laboratory experiment sheets for all the five modules of AM, PAM, PCM and Fiber Optic Communications as well as Super heterodyne Radio Receiver.
- [6] Presented the research work on “Doping Profile Measurement and Characterization by Scanning Capacitance Microscope for Pocket Implanted Nano Scale n-MOSFET” as part of the PhD course work (EEE 6410 Semiconductor Characterization Technology) at the Department of EEE, BUET on 21st September 2010.
- [7] Presented the research work on “DIBL Effect of SOI-MOSFET” in a seminar at the Ultra-Small Devices Engineering Laboratory, Hiroshima University, Japan, November 2003.
- [8] Presented the research work on “Effect of Process parameter variation in the pocket implanted MOSFET using TSUPREM4” in a workshop at the Research Center for Nano Devices, Hiroshima University, Japan, Oct. 2003.

Memberships:

- (a) Member: American Society for Engineering Education
- (b) Member: American Association for Science and Technology
- (c) Member: IEEE and IEEE-EDS, USA, January 2005 till present (2005-2011: 80638331; 2019-:94896918); IEEE Humanitarian Activity Coordinator (HAC) since 2019.
- (d) Life Fellow: Institution of Engineers, Bangladesh (IEB), August 2019 till present (F-13339).
- (e) Life Member: Institution of Engineers, Bangladesh (IEB), June 2015 to July 2019 (M-23815).
- (f) Life Member: Association of BUET Alumni (ABUETA), December 2010 till present (19989906232L)

- (g) Life Member: Bangladesh Electronics and Informatics Society (BEIS) , June 2005 till present (LM49)
- (h) Executive Committee: (Membership Development: 2008-2009; Secretary: 2010; Humanitarian Activity Coordinator: 2019), IEEE Bangladesh Section, Dhaka
- (i) Executive Committee Member: Bangladesh Electronics Society, June 2005 till present
- (j) Member: International Scientific Academy of Engineering and Technology (ISAET)
- (k) Life Member: Notre Dame Photographic Society (NDPS), July 1991 till present.
- (l) Life Member: Notre Dame Nature Study Club (NDCNSC), July 1991 till present.

Services to the University's Statutory Bodies:

1. **13 November 2018 till present:** Working as the **Treasurer** of Southeast University (SEU), appointed by the HE Honorable President, Peoples' Republic of Bangladesh.
2. **November 2018 till present:** Working as a **Member** of the **Syndicate**, Southeast University (SEU).
3. **March 2016 till present:** Working as a **Member** of the **Academic Council**, Southeast University (SEU).
4. **March 2016 till present:** Working as the **Chairman** of the **Examination Committee of EEE/ETE Departments**, Southeast University (SEU).
5. **September 2016 to January 2018:** Worked as a **Member, Disciplinary Committee**, Southeast University.
6. **December 2015 till present:** Working as a **Member** of the **Faculty Selection and Promotion Committee** of EEE Department, Southeast University (SEU).
7. **March 2016 till present:** Working as a **Member** of the **Administrative Staff Selection and Promotion Committee** of EEE Department, Southeast University (SEU).
8. **September 2014-September 2015:** Worked as the **Chairman** of the **Examination Committee** of the Faculty of Science and Engineering, Green University of Bangladesh.
9. **July 2014-September 2015:** Worked as the **Convener** of the **Operational Quality Assurance Committee** for the Faculty of Science and Engineering campus of Green University of Bangladesh.
10. **June 2013 to September 2015:** Worked as the **Member** of the **Library Committee**, Green University of Bangladesh.
11. **June 2013 to May 2014:** Worked as the **Member** of the **Disciplinary Committee**, Green University of Bangladesh.
12. **June 2013-September 2015:** Worked as a **Member, Finance Committee**, Green University of Bangladesh.
13. **June 2013-September 2015:** Worked as a **Member, Academic Council**, Green University of Bangladesh.
14. **June 2013-September 2015:** Worked as a **Member, Syndicate**, Green University of Bangladesh.
15. **June 2013-September 2015:** Worked as a **Member, Faculty Selection and Promotion Committee** of EEE Department, Green University of Bangladesh.
16. **January 2008 to August 2008:** Worked as the **Chairman** of the **Examination Committee** of the Faculty of Science and Information Technology, DIU for conducting the mid-term and final examinations of Spring and Summer 2008 Semesters.
17. **May 2005 to August 2008:** Worked as a **Member, Academic Council**, Daffodil International University.

Services to the University Committees:

1. **July 2020:** Working as the **Member** of the **Admission and Promotion Monitoring Committee** of Southeast University.
2. **June 2020:** Working as the **Convener** of the **Admission and Promotion Advising Committee** of Southeast University.
3. **July 2019:** Worked as the **Convener** of the **ISDT Member Transfer to IT Committee** of Southeast University.
4. **August 2019:** Worked as the **Convener** of the **Turnitin Software Purchase Committee** of Southeast University.
5. Working as the **Chair** of the **Organizing Committee** and **Member** of **Fund Raising and Conference Publication Committee** of the 22nd International Conference on Computer and Information Technology (ICCIT2019) organized by the EEE and CSE Departments of Southeast University during 18-20 Dec. 2019.
6. **April 2019 till present:** Working as the **Convener** of the **Inventory Investigation Committee** of the Library of Southeast University.
7. **28 March 2019:** Went to MEH Arif College at Gazipur as the **Chief Guest** of the **HSC Candidates' Fare Well Program** on behalf of Southeast University.
8. **23 March 2019:** Went to Narshingdi Model College at Narshingdi as the **Special Guest** of the **HSC Candidates' Fare Well Program** on behalf of Southeast University.
9. **February 2019:** Went to visit various colleges at Narshingdi as the **Member** of the **Admission and Promotion Committee** of Southeast University and met with the Principal, Vice-Principal, Trustee Boards and Directors of various colleges.
10. **January 2019:** Went to visit various colleges at Gazipur as the **Member** of the **Admission and Promotion Committee** of Southeast University and met with the Principal, Vice-Principal, Trustee Boards and Directors of various colleges.
11. **January 2019:** Worked as the **Member** of the **New Program Introducing Committee** at Southeast University.
12. **December 2018:** Worked as the **Member** of the **Organizing Committee** of the "Victory Day Celebration" on 17 December 2018 organized by the Southeast University.
13. **December 2018:** Worked as the **Member** of the **Organizing Committee** of the "SEU Nature Fest" on 8 December 2018 organized by the Southeast University Nature and Environment Club.
14. **November-December 2018:** Worked as the **Member** of the **Organizing Committee** of the "SEU Debate Fest" on 29 November-1st December 2018 organized by the Southeast University Debating Club.
15. **October 2018:** Worked as the **Member Secretary** of the **Organizing Committee** of the "Bangladesh Physics Olympiad (Dhaka South Region)" on 2 November 2018 organized by the School of Science and Engineering of Southeast University.

16. **September 2018:** Worked as the **Member** of the **Organizing Committee** of a day-long National Conference on “Enhancing Quality of Higher Education” on 22 September 2018 organized by the Institutional Quality Assurance Cell (IQAC) of Southeast University.
17. **September 2018:** Worked as the **Member** of the **Fresh Student Orientation Committee** of the School of Science and Engineering, Southeast University.
18. **September 2018:** Worked as the **Member** of the **Faculty Demonstration Session Committee** of the Departments of Electrical and Electronic Engineering and Architecture, Southeast University.
19. **January-February 2018:** Worked as the **Convener** of the **Annual Picnic 2017** jointly organized by EEE/ETE Departments
20. **July 2018:** Worked as the **Member** of the **Laboratory Staff Recruitment (Written Examination Question Setter)/ Competence Assessment of Existing Staff (Interview Session) Committees**, Southeast University (SEU).
21. **July 2018:** Worked as the **Convener/ Member** of the **CV Shortlisting Committee 2018** of **EEE Department/ CSE, Textile, Architecture and Mathematics Departments**, Southeast University (SEU).
22. **June 2018:** Worked as the **Member** of the **Identifying Mother Department Committee 2018**, Southeast University (SEU).
23. **February 2018:** Working as the **Member** of the **Executive Committee of Institute of Research and Training (IRT)** of Southeast University (SEU).
24. **February 2018:** Worked as the **Member** of the **International Mother Language Day Celebration Committee 2018** of Southeast University (SEU).
25. **November 2017-January 2018:** Worked as the **Member** of the **SEU Alumni Reunion 2018 Steering Committee, Member Secretary of Souvenir Sub-Committee and Convener of Venue Management Sub-Committee** of SEU.
26. **November-December 2017:** Worked as the **Member** of the **Victory Day Celebration Committee 2017 and Convener of Victory Day Quiz Contest Sub-Committee** of Southeast University (SEU).
27. **October-November 2017:** Worked as the **Member** of the Steering Committee of the **SEU Job Fair 2017**, organized by the Southeast University (SEU).
28. **September 2017 till present:** Working as the **Convener** of the **SEU Science Olympiad and Electronics Project Fair**, organized by the EEE Department of Southeast University (SEU) for college level students.
29. **May 2017 till present:** Working as the **Coordinator** of the **IEB Accreditation Committee** for the School of Science and Engineering, Southeast University.
30. **January-February 2017:** Worked as the **Convener** of the **Annual Picnic 2017** jointly organized by EEE/ETE Departments of Southeast University (SEU).
31. **November 2016 till present:** Working as the **Member** of the **Academic Calendar Committee** of Southeast University.
32. **November-December 2016:** Worked as the **Member** of the **Victory Day Celebration Committee 2016 and Adviser of Wall Magazine Publication Sub-Committee** of Southeast University (SEU).
33. **November 2016 till present:** Working as the **Convener** of the **Semiconductor Device Research Cell** of EEE Department, Southeast University (SEU).
34. **January 2016 to September 2018:** Worked as a **Member, Venue Management Committee** of the **Orientation Program of Spring, Summer, Fall 2016, 2017, 2018 Semesters** of Southeast University (SEU).
35. **1st May 2016 to 4th March 2017:** Worked as a **Member** of the **Venue Management Committee** of the **6th Convocation** of Southeast University (SEU).
36. **1st January to 6th February 2016:** Worked as the **Member Secretary** of the **Venue Management Committee** of the **5th Convocation** of Southeast University (SEU).
37. **January 2016 till present:** Working as the **Chairman** of the Board of Examiners of **Research and Internship Committee** of the EEE Department of Southeast University (SEU).
38. **January 2016 till present:** Working as the **Convener** of the **Laboratory Development Committee** of the EEE Department, Southeast University (SEU).
39. August 2015 to September 2015: Worked as a **Member** of the **Steering Committee and Convener** of the **Venue Management Committee** of the **2nd Convocation** of Green University of Bangladesh.
40. 2013-2014: Worked as a **Member** of the “**Annual Report Preparation Committee**” of Green University of Bangladesh.
41. July-September 2015: Worked as the **Convener** of the **Committee for Preparing Operational Duties and Responsibilities of the Faculty Members, Program Coordinators and Departmental Chairpersons** of Green University of Bangladesh.
42. March-August 2015: Worked as the **Convener** of the **Committee for Preparing In-house Teaching Capacity Development Log, Inquiry Based Learning Cycle and Examination Policy** of Green University of Bangladesh (GUB).
43. **May-June 2014:** Worked as the **Convener** of the Committee for Designing the **Department Chairperson’s Performance Evaluation Forms** of Green University of Bangladesh.
44. **February 2014:** Worked as the **Convener** of the Committee for preparing the **Terms of Reference of GUB Credit Equivalence Committee** of Green University of Bangladesh.
45. **Fall 2013:** Worked as the **Convener** of the Committee for selecting the **Best Course Syllabus of Different Departments** of Green University of Bangladesh.
46. **June 2013 to August 2013:** Worked as the **Member** of the Committee for preparing **Role and Responsibilities of the Deans and Chairpersons** of Green University of Bangladesh.
47. **June 2013 to August 2013:** Worked as the **Convener** of the Committee for preparing **Code of Conduct for Faculty and Students** of Green University of Bangladesh.
48. **June 2013 to August 2013:** Worked as the **Convener** of the Committee for preparing proposal of **Center for Research and Development** of Green University of Bangladesh.
49. **June 2013 to September 2015:** Worked as the **Member** of the **Library Committee** of Green University of Bangladesh.
50. **May-June 2014:** Worked as the **Convener** of the **Quality Assurance Committee** to identify the quality assurance indicators and its measuring tools for teaching and learning, research and development and IT services of GUB.
51. **November 2012-September 2015:** Worked as the **Coordinator** of the **IEB Accreditation Committee** for the Faculty of Science and Engineering, Green University of Bangladesh.
52. **October 2012 to February 2014:** Worked as the **Executive Editor** of the **Green University Review**.

53. **July-September 2012:** Worked as a **Member, Steering Committee** for the HSC 2012 Students' Reception Program held at Indoor Stadium, Mirpur, Dhaka.
54. **January-April 2012:** Worked as the **Coordinator** of the **"Program for the conduction of several laboratory courses at Training Institute for Chemical Industries (TICI), Ghorashal"** for the students of the EEE Department, Daffodil International University.
55. **January 2012:** Worked as the **Chairman** of the **"Machine Laboratory Equipment's Quotation Evaluation Committee"** of the EEE Department, Daffodil International University.
56. **June-November 2011:** Organized a **Certificate Course** on **"Telecommunication Engineering with Special Emphasis in Mobile Communication"** in the ECE Department, Presidency University.
57. **June 2010 to December 2011:** Processed the **'Degree Review'** files of the undergraduate students of the ECE Department, Presidency University.
58. **November 2010:** Worked as the **Chairman** of the **'Grade Verification Committee'** of the ECE Department of Presidency University for Summer 2010 Semester.
59. **June 2010 to December 2011:** Worked as the **Chairman, 'Catalog Committee'** of the ECE Department of Presidency University.
60. September 2007-to May 2010: Worked as the **Convener** of the **Committee** for the **IEB Accreditation** of the Department of ETE of Daffodil International University.
61. January 2010-February 2010: Worked as a **Member** of the **Organizing Committee** of the **Launching Ceremony** of the Department of Electrical and Electronic Engineering and Software Engineering of Daffodil International University.
62. December 2009-February 2010: Worked as a **Member** of the **Committee** for the Poster, Brochure and Flyer publication of the Department of Electrical and Electronic Engineering of Daffodil International University.
63. June 2007 to August 2008: Worked as the **Chairman** of the **Examination Board** of the Department of Electronics and Telecommunication Engineering, Daffodil International University for conducting the Thesis/Project/Internship Defense.

Extra- and Co-Curricular Activities:

- 1 Writing titled **"বাজার অর্থনীতির বিকাশে ইলেক্ট্রিক্যাল ও ইলেক্ট্রনিক পণ্যের ভূমিকা"** has been published in **Monthly Bazarzatkaran**, vol. 8, Issue 12, March 2020, p. 24-26.
- 2 Writing titled **"ইলেক্ট্রনিক পণ্যের বাজারঃ বিকাশ এবং টিকে থাকা"** has been published in **Monthly Bazarzatkaran**, vol. 8, Issue 8, November 2019, p. 17-19.
- 3 Writing titled **"নিউরোমার্কেটিং- মার্কেটিং কৌশলে নতুন অখ্যায়"** has been published in **Monthly Bazarzatkaran**, vol. 8, Issue 6, September 2019, p. 10-13.
- 4 Writing titled **"নারীদের প্রকৌশল পেশায় আগমনের ইতিহাস"** has been published in **Monthly Bazarzatkaran**, vol. 7, Issue 9, December 2018, p. 15.
- 5 October-November 2018: Worked as the Member Secretary of the **'Organizing Committee'** and Convener of Examination, Volunteer and Souvenir Sub-Committees for the **"Bangladesh Physics Olympiad 2019 (Dhaka South Region)"** at Southeast University, Tejgaon Permanent Campus and played a role to get permission.
- 6 21 October 2018: Arranged a Quiz Contest on the Book of **"কারাগারের রোজনামচা"** written by Bagngabandhu Sheikh Mujibur Rahman for the students of EEE Department, SEU on the occasion of National Mourning Day.
- 7 20 July 2018: **Judge of SS12**, one of the biggest Hackathon based competitions, Code-A-Thon and Maker Fair, organized by IEEE IUB Student Branch and IEEE Bangladesh Section held at Independent University Bangladesh.
- 8 7 June 2018: Organized a seminar on **"Test and Measurement Equipment of Optical Fiber Network"** at EEE Department, Southeast University, Dhaka. Key-note Speakers of the Seminar were Engr. Abu Saleh Musajjee and Engr. Shamsun Nahar Ruma, Engineer of Product Plus Solutions Ltd, Dhaka.
- 9 4 June 2018: Organized a seminar on **"Brain Engineering: Opportunities and Feasibilities"** at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Engr. SM Mahabub Alam, MD & CEO, Massive Star Studio Ltd. & Massive Business Academy, Dhaka.
- 10 21 April 2018: Worked as the Convener of the **'Organizing Committee'** for the **"SEU EEE Festival 2018"** program organized by EEE Department in association with EEE Club and EEE Alumni at Southeast University Permanent campus.
- 11 26 February 2018: Organized a seminar on **"Cryptography and its Practical Demonstration"** at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Mohashin Uddin Pathan, PhD Fellow, Latrobe Institute for Molecular Science, Melbourne, Australia.
- 12 22 February 2018: Worked as the Convener of the **'Organizing Committee'** for the **"EEE Annual Picnic 2018"** program organized by EEE Department, Southeast University at Shalbon Bihar, Comilla.
- 13 Writing titled **"Aa`vcK W. †gvnv‡§` Avjx †PŠayix m`vi: GKRb AmvaviY wky‡Ki bvg"** has been published in **Monthly Bazarzatkaran**, vol. 6, Issue 11, February 2018, pp. 14-16.
- 14 20 February 2018: Published a wall magazine on behalf of the EEE Department on the occasion of 21st February 2018 (বোশালির একুশ) at SEU Campus and also published writing on **"যেভাবে ২১শে ফেব্রুয়ারী 'আন্তর্জাতিক মাতৃভাষা দিবস' হয়ে উঠল"**.
- 15 Writing titled **"যে জ্ঞান সভ্যতাকে এগিয়ে নেয়- ইলেক্ট্রিক্যাল অ্যান্ড ইলেক্ট্রনিক ইঞ্জিনিয়ারিং"** has been published in **Monthly Bazarzatkaran**, vol. 6, Issue 10, January 2018, pp. 13-15.
- 16 11 January 2018: Organized a seminar on **"STEM (Science, Technology, Engineering and Mathematics) Career Pathway for Individuals"** at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Dr. Anee Azim, Research Engineer, Lockheed Martin- STELaRLab, Australia.
- 17 **17 December 2017:** Published writing on **"মুক্তিযুদ্ধের চেতনা বিকাশে বিশ্ববিদ্যালয় শিক্ষকদের ভূমিকা"** in a wall magazine named **"মুক্তিযুদ্ধের বিজয়"** published on the occasion of **"Victory Day Celebration Program 2017"** organized by Southeast University.
- 18 30 October 2017: Organized a seminar on **"Robotics and Artificial Intelligence"** at EEE Department, Southeast University.

- 19 10 August 2017: Published a wall magazine on behalf of the EEE Department on the occasion of the National Mourning Day (রুদয়ে বশবন্ধু) at SEU Campus and also published an article on “বশবন্ধুর সোনার বাংলা আমাদেরকেই গড়তে হবে”. Also arranged a General Knowledge Contest on the Book of ‘*Incomplete Biography*’ written by Bagngabandhu Sheikh Mujibur Rahman.
- 20 03 August 2017: Organized a seminar on “**Ammonia Decomposition to Produce Hydrogen for Fuel Cell**” at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Dr. Sharif F. Zaman, Associate Professor, Chemical and Materials Engineering Department, Faculty of Engineering, King Abdulaziz University, Jeddah, KSA.
- 21 17 July 2017: Organized a seminar on “**Electromagnetic Performances Analysis of an Ultra-wideband and Flexible Material Antenna in Microwave Breast Imaging**” at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Dr. Ashiqur Rahman, Research Assistant, Department of Electrical, Electronic and Systems Engineering, Universiti Kebangsaan Malaysia.
- 22 7 July 2017: **Judge** of **SS12**, one of the biggest Hackathon based competitions, Code-A-Thon and Maker Fair, organized by IEEE UIU Student Branch and IEEE Bangladesh Section held at United International University.
- 23 19 June 2017: Published a wall magazine on behalf of the EEE Department on the occasion of the Holy Ramadan (রমজানুল সুবানরাক) at SEU Campus and also published writing on “রমজানের গুরুত্ব ও তাৎপর্য”. Also arranged an Islamic General Knowledge Contest and Iftar Party.
- 24 22 April 2017: Worked as the Convener of the ‘**Organizing Committee**’ for the “বর্ষবরণ উৎসব ১৪২৪ ও জ্বালামনাই সম্মেলন” program to observe Bengali New Year 1424 and EEE Department’s Alumni Association formation at Southeast University.
- 25 12 April 2017: Worked as the Convener of the ‘**Organizing Committee**’ for the “**1st Intra-Departmental EEE Quiz Contest**” program at the EEE Department, Southeast University (SEU).
- 26 15 April 2017: Worked as a Member of the ‘**Organizing Committee**’ for the “১ লা বৈশাখ ১৪২৪” to observe Bengali New Year 1424 at SEU Permanent Campus.
- 27 20 February 2017: Published a wall magazine on behalf of the EEE Department on the occasion of 21st February 2017 (মোমের ভাষার একুশ) at SEU Campus and also published writing on “ডিজিটাল মাধ্যমে বাংলা ভাষা”.
- 28 9 January 2017: Organized a workshop on “**Nano Antenna Design for Energy Harvesting Using COMSOL Multiphysics**” for the students of EEE Department, Southeast University, Dhaka. Conducted by Rishad Arfin, Graduate Researcher, Department of ECE, McMaster University, Ontario, Canada.
- 29 2 January 2017: Organized a “**Cultural Program, Prize Giving Ceremony of Football Tournament and New Year Celebration Program 2017**” with the students of EEE/ETE Departments, Southeast University, Dhaka.
- 30 November 2017: Organized an “**Inter-Batch Football Tournament**” with the students of EEE/ETE Departments, Southeast University, Dhaka at Bangladesh Armed Forces Museum, Sher-E-Bangla Nagar.
- 31 **14 December 2016**: Published writing on “মহান বিজয় দিবসে বিশ্ববিদ্যালয়গুলোতে বিভাগ সমূহের করণীয়” in a wall magazine named “চেতনায় রক্তিম বিজয়” published on the occasion of “**Victory Day Celebration Program 2016**” organized by Southeast University and this magazine won the **Second Prize** among 12 departmental wall magazines.
- 32 1st December 2016: Organized a seminar on “**Nanotechnology Where All The Big Things Start**” at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Dr. Anis Haque, Associate Head, Department of Electrical and Computer Engineering, University of Calgary, Canada.
- 33 9th October 2016: Organized a seminar on “**Towards an Efficient and Adaptive Safety Data Dissemination in V2X Communications**” at EEE Department, Southeast University, Dhaka. Key-note Speaker of the Seminar was Dr. G. G. Md. Nawaz Ali, Research Fellow, INFINITS (Centre for InfoComm Technology), Department of EEE, Nanyang Technical University, Singapore.
- 34 April-June 2016: Organized three workshops on “**Electrical House Wiring and Layout Design using AutoCAD**” for the students of EEE Department, Southeast University, Dhaka.
- 35 31st March and 2nd April 2016: Organized a workshop on “**COMSOL Multiphysics for Semiconductor Device Design and Characterization**” for the Faculty Members of EEE Department, Southeast University, Dhaka.
- 36 22nd December 2014: Organized a workshop on “**COMSOL Multiphysics**” for the students of EEE Department, Green University of Bangladesh, Dhaka.
- 37 **22 February 2014**: Published writing on “তথ্য প্রযুক্তিতে বাংলা ভাষার ব্যবহার” in a souvenir published on the occasion of “২১ জন ভাষা সৈনিক সংবর্ধনা অনুষ্ঠান” organized by Green University of Bangladesh.
- 38 February 2014: Worked as the Convener of the ‘**Organizing Committee**’ for the “**Bangladesh Physics Olympiad 2014 (Dhaka Divisional Round)**” at GUB Campus and played a role to get permission.
- 39 August 2013: Worked as the Convener of the ‘**Organizing Committee**’ for the “**National Mourning Day 2013**” at GUB.
- 40 April 2013: Worked as a Member of the ‘**Organizing Committee**’ for the “১ লা বৈশাখ ১৪২০” to observe Bengali New Year at GUB and a stall was established named “ইতাদি” on behalf of the EEE Department at “বৈশাখী মেলা”.
- 41 Spring 2013: Published a wall magazine on behalf of the EEE Department on the occasion of 21st February; in 2013, স্মরণে একুশ, in 2014 গৌরবের একুশ at GUB Campus and won the **1st prize** among 8 departments in 2013.
- 42 Fall 2012-Summer 2015: Organized certificate course on “**AutoCAD for Engineers**” at Green University of Bangladesh. 5 batches of students successfully completed the course.
- 43 April-June 2012: Worked as a **Member** of the “**Newsletter Committee**” of Daffodil International University.
- 44 April 2012: Organized a seminar on “**Role of Electrical Engineers in Power Distribution Systems**” at Daffodil International University. Speaker of the seminar was Managing Director, DESCO.
- 45 January 2012 to February 2012: Worked as a **Member/** the **Convener** of the different Committees formed for the **10th Foundation Day** of Daffodil International University.
- 46 January 2012 to February 2012: Worked as a **Member/** the **Convener** of the different Committees formed for the **3rd Convocation** of Daffodil International University.

- 47 November 2011: Organized a seminar on “**Application Specific Integrated Circuit (ASIC) Design and Verification**” at Presidency University. Speaker of the seminar was Design Engineer, Intel, USA.
- 48 October 2010: Organized a seminar on “**Demand Side Management in Power Sector**” at Presidency University. Speaker of the seminar was Manager, DPDC.
- 49 July 2010: Organized a seminar on “**Mobile Communication in Bangladesh: from Industrial Perspective**” at Presidency University. Speaker of the seminar was GM, Teletalk BD.
- 50 January 2010: Attended the **51st Convention** of Institute of Engineers Bangladesh at Chittagong.
- 51 December 2009-January 2010: Worked as a **Member** of the Organizing Committee of the **1st Science Olympiad** organized by Bangladesh Academy of Science at Daffodil International University.
- 52 November 2009 to February 2010: Worked as a Member of the **Registration and Souvenir Committees** of the **9th Foundation Day** of Daffodil International University.
- 53 Worked as the **Member Secretary** of the **Equivalence Committee** of the **Department of Electronics and Telecommunication Engineering** of Daffodil International University.
- 54 Worked as a **Member/Member Secretary** in different **Investigation Committees** formed for the plagiarism case, electrical short circuit case, theft case etc of DIU.
- 55 January 2009: Worked as a Member of the various committees of the **7th Foundation Day** of DIU.
- 56 July 2008 to May 2010: Worked as the **Convener** of the Daffodil International University Science Club (**DIUSC**) and **Chief Editor** of the **Science Club Magazine**.
- 57 January 2008 to May 2008: Worked as a **Member** of the different Committees formed for the **2nd Convocation** of Daffodil International University.
- 58 July 2006 to November 2006: Worked as a Member of the Advisory Committee and the **Chairman** of the **Examination Committee** in the **1st Science Olympiad 2006** organized by the Faculty of Science and Information Technology, Daffodil International University.
- 59 January 2006 to May 2006: Worked as a **Member** of the various Committees formed for the **1st Convocation** of Daffodil International University.
- 60 January 2005 to December 2005: Worked as a **Member** of the Cricket Committee of DIU.
- 61 January 2002 to March 2002: Worked as a **Member** of the venue management committee (Badminton and Table Tennis) in AIUB Games 2002 organized by American International University Bangladesh.
- 62 Organized various parties, programs, sessions etc. for the students and teachers of SEU/GUB/AIUB/DIU/PU.

Research Community Services:

a) Journals:

- i) Chief Editor (August 2020-till present), Editorial Board and Reviewer: SEU Journal of Electrical and Electronic Engineering (SEUJEEE), Dhaka.
- ii) Editor: International Journal of Electronic Devices and Networking (<http://www.electronicnetjournal.com/board>)
- iii) Editor: International Journal of Research in Circuits, Devices and Systems (<http://www.circuitsjournal.com/board>)
- iv) Editorial Board Member and Reviewer: BAIUST Academic Journal; Bangladesh Army International University of Science and Technology (BAIUST), Cumilla, Bangladesh.
- v) Reviewer: Journal of Engineering and Applied Sciences, Science Publishing Group
- vi) Reviewer: International Journal of Learning and Teaching (IJLT)
- vii) Reviewer: Facta University Series: Electronics and Energetics Journal (FUEE), University of Niš, Niš, Serbia
- viii) Reviewer: Australian Journal of Electrical and Electronic Engineering (AJEEE), Engineers Australia Technical Journals, published by Taylor and Francis
- ix) Associate Editor (December 2018-till present), Member Secretary (May 2016-October 2018), Editorial Board Member (May 2016- till present) and Reviewer: SEU Journal of Science and Engineering (SEUJSE), Dhaka.
- x) Editorial Board Member: International Journal of Computer and Information Technology (IJCIT) published by the University of Asia Pacific (UAP), Dhaka, Bangladesh.
- xi) Reviewer: American International University Bangladesh Journal of Science and Engineering (AJSE) published by American International University Bangladesh (AIUB), Dhaka, Bangladesh.
- xii) Technical/Scientific Committee Member: Planetary Scientific Research Centre (PSRC)
- xiii) Member: Editorial Advisory Board, Elixir International Journal.
- xiv) Member of Editorial Board: International Journal of Inventions in Electronics and Electrical Engineering
- xv) Reviewer: Solid-Sate Electronics Journal, Elsevier Science Ltd. UK
- xvi) Member of Editorial Board: American Journal of Educational Science, ISSN: 2381-7127 (p), 2381-7135 (e), <http://www.aiscience.org/journal/editorialboard/ajes.html>
- xvii) Reviewer: American Journal of Circuits, Systems and Signal Processing, Public Science Frame, USA.
- xviii) Reviewer: IEB Journal of Electrical Engineering, Dhaka, Bangladesh
- xix) Reviewer: International Journal of Electronics, Taylor and Francis, UK.
- xx) Member: Scientific and Technical Committee & Editorial Review Board, World Academy of Science, Engineering and Technology (WASET).
- xxi) Reviewer: Journal of Electrical and Electronic Engineering Research (JEEER), India.
- xxii) Reviewer: Journal of Bangladesh Electronics Society, Dhaka, Bangladesh.
- xxiii) Member of Editorial Board: Engineering & Technology (CORE), International Institute of Engineers (http://www.iieng.org/editorial_board.php)
- xxiv) Executive Editor (March 2014-September 2015): GUB Journal of Science and Engineering (GUBJSE).
- xxv) Reviewer: Green University Review and GUB Journal of Science and Engineering, Dhaka, Bangladesh

xxvi) Member Secretary of the Editorial Board (October 2006 to May 2010) and Reviewer: Daffodil International University Journal of Science and Technology (DIUJST), Dhaka, Bangladesh

b) Conferences:

- i) Technical Program Committee Member, Reviewer and Technical Session Chair: 2nd IEEE International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST) organized by the Faculty of Engineering, American International University Bangladesh (AIUB), Dhaka, Bangladesh, 5-7 January 2021.
- ii) Organizing Committee Member and Reviewer: 23rd IEEE International Conference on Computing and Information Technology (ICCIT2020) organized by EEE and CSE Departments of Ahsanullah University of Science and Technology, Tejgaon, Dhaka during 19-21 December 2020 through Webex platform.
- iii) Technical Program Committee Member and Reviewer: 4th International Conference on Advances in Engineering (AE2020), November 28~29, 2020, Dubai, UAE.
- iv) Reviewer: Joint 2020 4th International Conference on Imaging, Vision & Pattern Recognition (IVPR); 9th International Conference on Informatics, Electronics & Vision (ICIEV); and 2nd International Conference on Activity and Behavior Computing (ABC) held at Kitakyushu International Conference Center, Kokura, Fukuoka, Japan during 22-25 June 2020.
- v) Technical Program Committee Member, Tutorial Chair and Reviewer: IEEE Region 10 Symposium (TENSYP) 2020 organized by IEEE Bangladesh Section held at Dhaka, Bangladesh during 05-07 June 2020 through Webex platform.
- vi) Reviewer: IEEE International Conference on Telecommunications and Photonics (ICTP) 2019, organized by IEEE Communications Society, Bangladesh Section from 28-30 December 2019.
- vii) Reviewer: IEEE International Conference on Power, Electrical, Electronics Industrial Application (PEEIACON) 2019, organized by IEEE Bangladesh Section from 28 November to 1 December 2019.
- viii) Reviewer: IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON) 2019, organized by IEEE Bangladesh Section from 28 November to 1 December 2019.
- ix) Organizing Committee Chair, Fund Raising and Conference Publication Committee Member and Reviewer: 22nd IEEE International Conference on Computing and Information Technology (ICCIT2019) organized by EEE and CSE Departments of Southeast University, Tejgaon, Dhaka during 18-20 December 2019.
- x) Technical Program Committee Member as well as Reviewer: 5th IEEE International Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE 2019) jointly organized by IEEE Bangladesh Section and WIE AG of IEEE BDS as well as and IEEE Bangalore Section and IEEE WIE AG Bangalore Section, held at Bangalore, India during 15-16 November 2019.
- xi) Reviewer: 1st International Conference on Sustainable Technologies for Industry 4.0 (STI), 24-25 December 2019, Faculty of Science and Engineering, Green University of Bangladesh (GUB), Permanent Campus, Purbachal American City, Rupganj, Dhaka, Bangladesh.
- xii) Technical Program Committee Member and Reviewer: 4th International Conference on Electrical Information and Communication Technology (EICT), 20-22 December 2019, Faculty of Electrical and Electronic Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh.
- xiii) Technical Program Committee Member and Reviewer: 5th International Conference on Advances in Electrical Engineering (ICAEE), 26-28 September 2019, Independent University Bangladesh (IUB), Dhaka, Bangladesh.
- xiv) Technical Session Chair: 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT-2019), 3-5 May 2019, East West University, Dhaka, Bangladesh.
- xv) Reviewer: 2nd International Power Engineering, Control and Computing Conference (PECCON-2019) organized by Vellore Institute of Technology (VIT), Chennai, India in collaboration with Binghamton University, USA on 12-14 December 2019.
- xvi) Technical Session Chair, Track Co-Chair and Reviewer: 2nd IEEE International Conference on Electrical, Computer and Communication Engineering (ECCE) organized by Chittagong University Engineering and Technology (CUET), Chittagong, Bangladesh, held in Cox's Bazar, Bangladesh on 7-9 February 2019.
- xvii) Technical Program Committee Chair, Track Chair (Electronics and Circuits), Reviewer and Technical Session Chair: 1st IEEE International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST) organized by the Faculty of Engineering, American International University Bangladesh (AIUB), Dhaka, Bangladesh, 10-12 January 2019.
- xviii) Reviewer of Semiconductor Devices and Power Electronics Track: 10th International Conference on Electrical and Computer Engineering (ICECE 2018) organized by the Department of EEE, BUET, Dhaka, Bangladesh, 20-22 December 2018.
- xix) Technical Program Committee Member, Reviewer, Best Paper Selection Committee Member and Technical Session Chair: 1st IEEE International Conference on Advances on Electrical and Electronic Engineering (ICAEEE) organized by the Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh, 22-24 November 2018.
- xx) Organizing Committee Member: 1st International Conference on Electronics and ICT organized by the Bangladesh Electronics Society (BES) at Bangladesh Atomic Energy Center, Dhaka, Bangladesh, 25-26 November 2018.
- xxi) Member of the Organizing Committee: National Conference on Enhancing Quality of Higher Education, organized by Institutional Quality Assurance Cell (IQAC), Southeast University, Dhaka, Bangladesh, 22 September 2018.
- xxii) Technical Program Committee Member, Track (Electronics and Material Science) Chair, Reviewer, Technical Session Chair and Judge of the Project Competition: 2nd IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET) organized by the Faculty of Science and Engineering, International Islamic University Chittagong (IIUC), Chittagong, Bangladesh, 28-29 October 2018.
- xxiii) Technical Program Committee Member, Reviewer, Track Chair/ Co-Chair, Technical Session Chair and Judge of the Poster Contest: 4th IEEE International Conference on Electrical Engineering and Information & Communication Technology (iCEEICT 2018), organized by EECE Department, Military Institute of Science and Technology, Dhaka, Bangladesh, 13-15 September 2018.
- xxiv) International Program Committee Member and Reviewer: 6th IEEE International Conference on Informatics, Electronics and Vision (ICIEV), 25-28 June 2018, Kitakyushu, Fukuoka, Japan.

- xxv) Reviewer: 3rd International Conference on Industrial Convergence (ICIC 2018), 17-20 January 2018, Century Park Hotel, Manila, Philippines. Co-organized by DaeHan Society of Industrial Management, The Society of Digital Policy & Management, Bulacan State University, Philippines, Korea Convergence Society, Korea Institute of Science and Technology Information, The Korean Association for Comparative Government.
- xxvi) Technical Program Committee Member, Track Co-Chair and Reviewer of Semiconductor Devices, Nano-Technology and Photonics Track: 3rd IEEE International Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE 2017) jointly organized by WIE Affinity Group, IEEE Bangladesh Section and Uttar Pradesh Section, India held at Women Institute of Technology, Dehradun, Uttarkhand, India, 18-19 December 2017.
- xxvii) Reviewer: 2nd IEEE International Conference on Electrical and Electronic Engineering (ICEEE) organized by Rajshahi University Engineering and Technology (RUET), Rajshahi, Bangladesh, 27-29 December 2017.
- xxviii) Reviewer, Track Chair and Session Chair: IEEE Region 10 Humanitarian Technology Conference (IEEE R10 HTC 2017), 21-23 December 2017, IEEE Region 10 and IEEE Bangladesh Section, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.
- xxix) Reviewer: 3rd International Conference on Electrical, Information and Communication Technology (EICT 2017), 7-9 December 2017, Faculty of Electrical and Electronic Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh.
- xxx) Reviewer: 1st International Conference on Climate Change and Sustainable Development through Digitalization (ICSDD), December, 2017, University of Information Technology and Sciences (UITS), Dhaka, Bangladesh.
- xxxi) Technical Program Committee Member, Reviewer and Technical Session Chair: 4th International Conference on Advances in Electrical Engineering (ICAEE), 28-30 September 2017, Independent University, Dhaka, Bangladesh.
- xxxii) Technical Committee Member, Technical Session Chair and Reviewer: 1st Electronics & Information Technology Research Conference (EITRC), 2017, organized by Centre for Research & Innovation in Science, Arts & Technology (CRISAT), held at Southeast University, Dhaka, Bangladesh. Also presented a key-note talk.
- xxxiii) International Program Committee Member and Reviewer: 6th IEEE International Conference on Informatics, Electronics & Vision (ICIEV), 1-3 September 2017, University of Hyogo, Himeji, Japan.
- xxxiv) Technical Session Chair and Reviewer: 1st IEEE International Conference on Electrical, Computer and Communication Engineering (ECCE) organized by Chittagong University Engineering and Technology (CUET), Chittagong, Bangladesh, held in Cox's Bazar, Bangladesh on 16-18 February 2017.
- xxxv) International Program Committee Member, Publication Chair and Technical Session Chair: 1st IEEE International Conference on Imaging, Vision & Pattern Recognition (iIVPR), 13-14 February 2017, University of Dhaka.
- xxxvi) Poster Session Chair: 2nd Student Conference on Science and Engineering (SCSE), 3 February 2017, Nawab Ali Chowdhury Senate Building, University of Dhaka.
- xxxvii) Technical Program Committee Member, Track Co-Chair as well as Reviewer of Semiconductor Devices, Nano-Technology and Photonics Session: 2nd IEEE International Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE 2016) jointly organized by WIE Affinity Group, IEEE Bangladesh and Pune Section, held at Pune, Maharashtra, India, 19-21 December 2016.
- xxxviii) Track Chair and Reviewer: 1st IEEE International Conference on Medical Engineering, Health Informatics and Technology (MediTec 2016), organized by United International University, Dhaka, Bangladesh, 17-18 December 2016.
- xxxix) Reviewer: 9th IEEE International Conference on Electrical and Computer Engineering (ICECE) organized by Bangladesh University Engineering and Technology (BUET), Dhaka, Bangladesh, 20-22 December 2016.
- xl) Technical Session Chair and Reviewer: 2nd IEEE International Conference on Electrical, Computer and Telecommunication Engineering (ICECTE) organized by Rajshahi University Engineering and Technology (RUET), Rajshahi, Bangladesh, 08-10 December 2016.
- xli) Technical Session Chair and Judge of the Project Competition: 1st IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET) organized by the Faculty of Science and Engineering, International Islamic University Chittagong (IIUC), Chittagong, Bangladesh, 28-29 October 2016.
- xlii) International Program Committee Member, Reviewer and Technical Sessions' Chair: 5th IEEE International Conference on Informatics, Electronics & Vision (ICIEV), 13-14 May 2016, University of Dhaka, Bangladesh.
- xliii) Technical Program Committee Member, Track Co-Chair and Technical Session Chair of Semiconductor Devices, Nano-Technology and Photonics Session as well as Reviewer: 1st IEEE International Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE 2015) organized by WIE Affinity Group, IEEE Bangladesh Section, Dhaka, Bangladesh, 19-20 December 2015.
- xliv) Member of the Organizing Committee and the Chairman of the Publication Committee of the 1st Bangladesh Electronics Olympiad 2015 held on 15 December 2015, organized by the Bangladesh Electronics Society (BES) and hosted by Curzon Hall, University of Dhaka. Also, the Syllabus Writer and Question/ Problem Setter of this Olympiad. Wrote an article titled "History of Electronics" for the Olympiad souvenir.
- xlv) Reviewer, Track Chair/ Co-Chair, Technical Session Chair: IEEE International Conference on Electrical Engineering and Information & Communication Technology (iCEEiCT 2014, 2015 and 2016), organized by EECE Department of Military Institute of Science and Technology, Mirpur, Dhaka and IIT of Jahangirnagar University, Savar, Bangladesh.
- xlvi) Reviewer and Committee Member: National Conference on Communication and Information Security (NCCIS), 2006-2012, organized by Faculty of Science and Information Technology, Daffodil International University.
- xlvii) Reviewer and Committee Member: National Conference on Electronics and ICT for National Development organized by the Bangladesh Electronics Society (2010, 2012, 2014, 2017), Dhaka, Bangladesh. Technical Session and Publication Committee Chair in 2017 also.
- xlviii) Chairman/Member Secretary/Member of various Committees like Organizing Committee, Publication Committee, Registration Committee etc. of the 1st, 2nd, 3rd and 4th National Conference on Communication and Information Security (NCCIS 2006, 2007, 2009, 2012) organized by the Faculty of Science and Information Technology (FSIT), Daffodil International University, Dhaka, Bangladesh.

Industry Visits:

- 1) 2018: Visited the Ghorashal Power Station Training Center (GTC) under the Bangladesh Power Development Board at Ghorashal, Narshindi, Bangladesh with the students of EEE Department, Southeast University, Dhaka.
- 2) 2017: Visited the Biomedical Engineering Laboratories of Sonar Bangla Foundation Shaymoli, Dhaka, Bangladesh with the students of EEE and ETE Departments, Southeast University, Dhaka, Bangladesh.
- 3) 2017: Visited the Landing Station of Bangladesh Submarine Cable Company Limited (BSCCL) at Cox's Bazar, Bangladesh with the students of EEE Department, Southeast University, Dhaka, Bangladesh.
- 4) 2017: Visited the VLSI and Solar Cell Fabrication Research Laboratories of Atomic Energy Research Establishment under the Bangladesh Atomic Energy Commission at Savar, Dhaka, Bangladesh with the students of EEE Department, Southeast University, Dhaka, Bangladesh.
- 5) 2016: Visited the Ashuganj Power Station Company Limited under the Bangladesh Power Development Board at Bhairab, Brahman Baria, Bangladesh with the students of EEE Department, Southeast University, Dhaka.
- 6) 2016: Visited Citizen Cables Ltd, Rejendrapur, Gazipur with the students of EEE Department, Southeast University, Dhaka.
- 7) 2015: Visited the Ghorashal Power Station under the Bangladesh Power Development Board at Ghorashal, Narsindi, Bangladesh with the students of EEE Department, Green University of Bangladesh.
- 8) 2014: Visited the Ashuganj Power Station Company Limited under the Bangladesh Power Development Board at Bhairab, Brahman Baria, Bangladesh with the students of EEE Department, Green University of Bangladesh.
- 9) 2014: Visited the Karnafuli Hydro Electric Power Station under the Bangladesh Power Development Board at Kaptai, Rangamati, Bangladesh with the students of EEE Department, Green University of Bangladesh.
- 10) 2014: Visited the MyOne Electronics Industries Ltd, Gazipur with the students of EEE Department, Green University.
- 11) 2013: Visited the Green Power Company Limited, Savar, Dhaka under with the students of EEE Department, Green University of Bangladesh (GUB).
- 12) 2013: Visited the National Load Dispatch Center (NLDC) and 230/132 KV Grid Sub-Station at Aftabnagar under the Power Grid Company of Bangladesh (PGCB) Limited with the students of EEE Department, Green University of Bangladesh.
- 13) 2012: Visited the Rural Power Company Limited (RPCL), Kodda, Gazipur under the Rural Electrification Board (REB), Bangladesh with the students of EEE Department, Green University of Bangladesh.
- 14) 2011: Visited the Karnafuli Hydro Electric Power Station under the Bangladesh Power Development Board at Kaptai, Rangamati, Bangladesh with the students of EEE Department, Presidency University.
- 15) Visited the Base Transmitter Station (BTS) of Teletalk Bangladesh Limited at Gulshan-2 with the students of EEE Department, Presidency University.
- 16) 2011: Visited the 230/132 KV Grid Sub-Station under the Power Grid Company of Bangladesh Limited at Siddhirganj, Narayanganj, Bangladesh with the students of EEE Department, Presidency University.
- 17) 2011: Visited the Ghorashal Power Station under the Bangladesh Power Development Board at Ghorashal, Narsindi, Bangladesh with the students of EEE Department, Presidency University.
- 18) 2010: Visited the Lalchand Tea Estate at Hobiganj, Sylhet with the students of EEE Department, Presidency University.
- 19) 2010: Visited the Shahjibazar Power Station under the Bangladesh Power Development Board at Hobiganj, Sylhet, Bangladesh with the students of EEE Department, Presidency University.
- 20) 2010: Visited the Crown Cement Factory of M.I. Cement Factory Limited at West Mukterpur, Munshiganj, Bangladesh with the students of ETE Department, Daffodil International University.
- 21) 2009: Visited the Ashuganj Power Station Company Limited at Bhairab, Brahman Baria, Bangladesh with the students of ETE Department, Daffodil International University.
- 22) 2006: Visited the Mobile Switching Centre (MSC) of Teletalk Bangladesh Limited at Ramna Telephone Exchange, Gulistan with the students of ETE Department, Daffodil International University.
- 23) 2004: Visited the Satellite Earth Station at Kaliakair, Gazipur with the students of EEE Department, Ahsanullah University of Science and Technology (AUST).
- 24) 2002: Visited the Gulshan Telephone Exchange with the students of CoE Department, American International University Bangladesh (AIUB).

Other Information:

1. Language Skills:

- (a) Bengali: the mother tongue.
- (b) English: very good in listening, speaking, reading and writing.
- (c) Arabic: very good in reading.
- (d) Hindi: average in listening and speaking.

2. Computer Skills:

- (a) Operating Software: MS-DOS, WINDOWS, UNIX/LINUX
- (b) Programming Language: TURBO and Borland C/C++, Assembly Language for 8085 and 8086 microprocessor, MASM, FORTRAN, Visual Basic etc.
- (c) Simulation Software: Device Simulator- MEDICI, Process Simulator- TSUPREM, COMSOL Multiphysics, MATLAB, VHDL and verilog programming in Max Plus II and Xilinx Environment, P-SPICE, Cadence, Microwind, DSch etc.
- (d) Graphics/Drawing Software: Visio Technical, Electronic Work Bench, Board Maker, OrCAD Schematic, PROTEL, MS Photo Draw, Adobe Photoshop, Adobe Illustrator etc.
- (e) Data Analysis Software: SPSS, KaleidaGraph, MS EXCEL, Microcal Origin

(f) Others: MS Word, LaTeX, MS Powerpoint, MS Access, Math Type etc.

3. Family/ Personal Information:

- Father's name: **Nurul Haque Bhuyan** (Former DGM, Bangladesh Bank)
- Mother's name: **Mahbuba Khanam** (Housewife)
- Date of Birth: **15th June 1974**
- Blood Group: B positive
- Nationality: Bangladeshi by birth (BRN: 19742692048182230; NID: 2692985941911, SCID: 8244267905)
- e-TIN: 134568825175

Family Life: Married to **Sher Shermin Azmiri Khan**, MPhil (CSE), JNU; M.Sc. Engg. (ICT), IICT, BUET; PGD (ICT), IICT, BUET; B.Sc. Engg. (ECE), AIUB; **Assistant Professor**, Department of Computer Science and Engineering, Central Women's University, Dhaka, Bangladesh. Have one daughter (**Fariha Tasfia Haque**) studying at Class Eight, Motijheel Model High School, Dhaka and one son (**Muhaiminul Haque Bhuyan, Fahmi**) studying at Class One.

Contact Information:

Mail Address:

78/1 Brahman Chiron, PS. Jatrabari, PO. Wari, Dhaka 1203, Bangladesh.

Office Phone:

Phone: 88-02-8878502, 8878497, 8870474, 8870475, 8870476, Ext. 402.

Cell Phone:

88-01815-657346, 88-01771-051738

Email:

muhibulhb@seu.edu.bd, chaireee@seu.edu.bd, muhibulhb@gmail.com, muhibulhb@yahoo.com

Webpages:

Home: <http://www.seu.edu.bd/dept/eee.php?id=faculty>

Research Gate: /profile/Muhibul_Bhuyan

Facebook: </Muhibul Haque Bhuyan>

Twitter: </muhibulhb>

LinkedIn: </muhibulhb>

Skype ID: *Muhibul Haque Bhuyan*

OrcidID: <https://orcid.org/0000-0001-9255-6708>

References:

- I) **Prof. Dr. Saiful Islam** (Adviser and Course Teacher, EEE, BUET and Dean, FE, AIUB)
Former Vice-Chancellor, BUET.
- II) **Prof. Dr. Quazi Deen Mohd Khosru** (PhD Supervisor and Course Teacher, EEE, BUET)
Department of Electrical and Electronic Engineering, BUET.
- III) **Prof. Dr. Kazi Mujibur Rahman** (M.Sc. Engg. Supervisor and Course Teacher, EEE, BUET)
Department of Electrical and Electronic Engineering, BUET.
- IV) **Prof. Dr. Pran Kanai Saha** (B.Sc. Engg. Supervisor and Course Teacher, EEE, BUET)
Department of Electrical and Electronic Engineering, BUET.
- V) **Prof. Dr. A. B. M. Siddique Hossain** (Course Teacher, EEE, BUET and Dean, FE, AIUB)
Department of Electrical and Electronic Engineering, AIUB.