

**Name: Dr. Nahid A Jahan**

Employee ID #: 0009487854, Code # 8521

Current Designation: Assistant Professor

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.	Post-Doctoral Research Fellow	Research Institute for Electronic Science (RIES), Graduate school of Information Science and Technology, Hokkaido University, Japan.	-	Nano-photonics	2013	-
2.	Ph.D	Graduate school of Information Science and Technology, Hokkaido University, Japan.	-	Electronics for Informatics	2013	-
3.	M.Sc. Engg.	University of Rajshahi, Bangladesh	-	Applied Physics and Electronic Engineering From the former department of APEE (latterly transformed to EEE)	2006	First Class with 70.13% marks
4.	B.Sc. Engg.	University of Rajshahi, Bangladesh	-	Applied Physics and Electronic Engineering From the former department of APEE (latterly transformed to EEE)	2005	First Class with 62.06% marks
5.	HSC	Rajshahi University School and College	Rajshahi	Science	2000	75.8% marks (distinction: star*)
6.	SSC	Rajshahi University School and College	Rajshahi	Science	1998	82.5% marks (distinction: star*)

## Tenure of Teaching/ Research Experiences:

### Full-Time Experiences:

Sl #	Position	Department	University	Start	End	Length of Service
1.	Assistant Professor	EEE	Southeast University	9 <sup>th</sup> June 2019	Continuing	1 month
2.	Associate Professor	ECE	East West University, Dhaka, Bangladesh	5 <sup>th</sup> September 2018	22 <sup>nd</sup> December 2018	~4 months
3.	Assistant Professor	ECE	East West University, Dhaka, Bangladesh	5 <sup>th</sup> September 2013	4 <sup>th</sup> September 2018	5 years
4.	Lecturer	ETE	University of Development Alternatives	1 <sup>st</sup> January 2009	5 <sup>th</sup> October 2009	~9 months
<b>Total Experiences:</b> As Associate Professor: 4 months, Assistant Professor: 5 years, 6 months, Lecturer: 9 months, = <b>6 years, 2 month</b>						

## Academic Services:

Teaching is my passion and panache. My aim is to build up career in research and teaching. I have been in teaching since 1<sup>st</sup> January 2009 (10 years). After my Graduation in Applied Physics and Electronic Engineering (APEE) from Rajshahi University (latterly transformed into EEE), I started my career at University of Development Alternatives from 1<sup>st</sup> January 2009. I received prestigious Monbukagakusho Scholarship on 06<sup>th</sup> October 2009 to continue PhD from Hokkaido University. After 3 and half years of higher study I received PhD on 25<sup>th</sup> March 2013 in the field of Electronics for Informatics from Laboratory of Nanophotonics, Research Institute for Electronic Science (RIES) under graduate school of Information Science and Technology, Hokkaido University, Japan. Thereafter I got post-doctoral research fellowship in the same Laboratory of Nanophotonics, Research Institute for Electronic Science (RIES), Hokkaido University, Japan. I continue the fellowship for few months and then came to Dhaka, Bangladesh to join as an Assistant Professor in the department of Electronics & Communications Engineering (ECE), East West University, Aftabnagar, Dhaka, Bangladesh. **After serving for 5 years as Assistant Professor in the ECE Department of EWU, I promoted to Associate Professor in 5<sup>th</sup> September 2018. I contributed in achieving the BAETE (IEB) accreditation of ETE and ICE programs of ECE dept., at East West University. Recently I have joined as Assistant professor in the dept. of EEE, SEU and started practicing OBE based curriculum for EEE program in this department. The worth-mentioning contributions are:**

- I actively started practicing OBE based curriculum for ETE and ICE programs from 2018 in East West University, Dhaka.
- I served as Member of Self-Assessment committee (SAC) of ECE Dept, East West University and successfully achieved "Very Good" grade.
- I served as one of the three prominent Member of Departmental Development Committee (DDC) of ECE Dept, East West University for 2 years.
- I served as one of the three prominent Member of Curriculum Committee of ECE Dept, East West University for 5 years.
- I have research neck and total number of international publications is 30.
- I have research collaboration with Prof Mamun Ibe Reaz, UKM, Malaysia.
- I confidently teach Digital Logic Design, Optoelectronic Devices, Introduction to Nanotechnology at East West University.
- I supervised about 40 under graduate students.

## Administrative Services:

- From December 31, 2008 to September 27, 2009:** Served as the Hostel super in Ladies Hostel, Lalmatia, University of Development Alternatives, Dhaka.

### **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:**

#### COURSES TAUGHT

##### Undergraduate

- 1) Electrical Circuits I (DC circuits)
- 2) Electrical Circuits II (AC Circuits)
- 3) Electronic Properties of Materials
- 4) Electronic Circuits I
- 5) Electronic Circuits II
- 6) Digital Electronics/Digital Logic Design
- 7) Renewable Energy Technology
- 8) Optoelectronics
- 9) Electronic Properties of Materials

##### INTERESTED TO TEACH (Undergraduate level)

- 1) Electrical Circuits I and II (DC and AC circuits)
- 2) Digital Electronics/Digital Logic Design
- 3) Renewable Energy Technology
- 4) Optoelectronics
- 5) Fiber Optic Communication
- 6) Electronic Properties of Materials
- 7) VLSI Circuit Design
- 8) Introduction to Nanotechnology

##### INTERESTED TO TEACH (Graduate level)

- 1) Renewable Energy Technology
- 2) Optoelectronics
- 3) Semiconductor Devices
- 4) Micro Electronics
- 5) Introduction to Nanotechnology
- 6) VLSI Circuit Design

### **Research Areas:**

- 1) Semiconductor device modeling
- 2) Numerical device and process simulation of Low Dimensional Heterostructures
- 3) Numerical device and process simulation Semiconductor nanostructures
- 4) Quantum optics
- 5) Cavity quantum electrodynamics, quantum information science and engineering
- 6) Solar cells and high efficiency quantum dot based solar cells.

### **Research Publications:**

#### **(a) Thesis:**

- PhD Thesis: **Study on Semiconductor Quantum Wells, Dots, and Dashes in Telecommunication Band: Charge Carrier Dynamics and Luminescence Quenching Mechanisms**
- M.Sc. Engg. Thesis: **To Study the Effect of Ionization on Opto-Electrical Properties of Natural and Synthetic Polymers**

**(b) Journal Papers:**

- [1] **Nahid A. Jahan**, Pankaj Ahirwar, Thomas J. Rotter, Ganesh Balakrishnan, Hidekazu Kumano, and Ikuo Suemune, "Spectral and Transient Luminescence Measurements on GaSb/AlGaSb Quantum Wells Grown on GaSb/GaAs Heterojunctions with and without Interfacial Misfit Arrays", *Jpn. J. Appl. Phys.* vol. 52, p. 022101 (2013); doi: 10.7567/JJAP.52.022101
- [2] **Nahid A Jahan**, Claus Hermannstädter, Hirotaka Sasakura, Thomas J Rotter, Pankaj Ahirwar, Ganesh Balakrishnan, Hidekazu Kumano and Ikuo Suemune, "Carrier Dynamics and Photoluminescence Quenching Mechanism of Strained InGaSb/AlGaSb Quantum Wells," *J. Appl. Phys.* vol. 113, p. 053505 (2013); doi: 10.1063/1.4789374.
- [3] **Nahid A Jahan**, Claus Hermannstädter, Jae-Hoon Huh, Hirotaka Sasakura, Thomas J Rotter, Pankaj Ahirwar, Ganesh Balakrishnan, Kouichi Akahane, Masahide Sasaki, Hidekazu Kumano and Ikuo Suemune, "Temperature dependent carrier dynamics in telecommunication band InAs quantum dots and dashes grown on InP substrates," *J. Appl. Phys.* vol.113, p. 033506 (2013), doi: 10.1063/1.4775768.
- [4] C. Hermannstädter, **N. A. Jahan**, J.-H. Huh, H. Sasakura, K. Akahane, M. Sasaki, and I. Suemune, "Inter-dot coupling and excitation transfer mechanisms of telecommunication band InAs quantum dots at elevated temperatures," *New Journal of Physics*, vol. 14, p.023037 (2012).
- [5] Jae-Hoon Huh, Claus Hermannstädter, Kouichi Akahane, Hirotaka Sasakura, **Nahid A. Jahan**, Masahide Sasaki, and Ikuo Suemene," "Fabrication of Metal Embedded Nano-Cones for Single Quantum Dot Emission," *Jpn J. of Applied Physics*, vol. 50, p.06GG02 (2011).
- [6] Jae-Hoon Huh, Claus Hermannstädter, Kouichi Akahane, **Nahid A. Jahan**, Masahide Sasaki and Ikuo Suemune, "Silver Embedded Nanomesas as Enhanced Single Quantum Dot Emitters in the Telecommunication C Band," *Jpn J. Appl. Phys.*, Vol. 51, Number 6S, p. 06FF12 (2012).
- [7] X. Liu, K. Akahane, **N. A. Jahan**, N. Kobayashi, M. Sasaki, H. Kumano, and I. Suemune, "Single-Photon Emission in Telecommunication Band from an InAs Quantum Dot Grown on InP with Molecular-beam Epitaxy," *Appl. Phys. Lett.* vol.103, p.061114 (2013).
- [8] P. Ahirwar, T. J. Rotter, D. Shima, **N. A. Jahan**, S. P. R. Clark, S. J. Addamane, G. Balakrishnan, A. Laurain, J. Hader, Y.-Y. Lai, J. V. Maloney, I. Suemune, R. Bedford, "Growth and Optimization of 2  $\mu\text{m}$  InGaSb/AlGaSb Quantum Well Based VECSELs on GaAs/AlGaAs DBRs," *IEEE Journal of Selected Topics in Quantum Electronics* , p.07/2013; 19(4):1700611-1700611. DOI: 10.1109/JSTQE.2013.2239615.
- [9] M. M. Haque, M. K. E. Zahan, **N. A Jahan**, H. I. Lee, "Eu<sup>3+</sup> activated potential red emitting phosphor for solid state lighting," *Optik*, vol. 133, pp.1-8 (2017).
- [10] **Nahid A. Jahan**, Md. Minhaz Ul Karim and M. Mofazzal Hossain, "A High Efficiency Ultra Thin (1.8  $\mu\text{m}$ ) CdS/CdTe p-i-n Solar Cell with CdTe and Si as BSF layer," *ASTESJ*, vol.3, pp-213-217 (2018).
- [11] Mohammad Arif Sobhan Bhuiyan, Mamun Bin Ibne Reaz, Mastuta Binti Omar, Mohammad Torikul Islam Badal\*, **Nahid A. Jahan.**, "Advances in Active Inductor Based CMOS Band-pass Filter, *Micro and Nanosystems*, Vol. 10, Issue 1 (2018). DOI : 10.2174/1876402910666180524121649

**(e) Conference Papers:**

- [1] **N. A. Jahan** and M. M. Hossain, "Effect of Ionization, Dyeing and Rayon Mixing on the opto-electrical properties of silk". *Int. Conf. on Electronics, Computer and Communication (ICECC 2008)*, ISBN 984-300-002131-3, page 680-685.
- [2] C. Hermannstädter, J.-H. Huh, **N. A. Jahan**, H. Sasakura and I. Suemune, "Long wavelength emission from nanocone structures with embedded single InAs/InGaAlAs quantum dots grown on InP substrates," *Compound Semiconductor Week (CSW/IPRM), 2011 and 23rd IEEE International Conference on Indium Phosphide and Related Materials*, pp. 1-4, E-ISBN : 978-3-8007-3356-9 ,Print ISBN: 978-1-4577-1753-6, Berlin, Germany (2011).
- [3] C. Hermannstädter, J.-H. Huh, **N. A. Jahan**, H. Sasakura and I. Suemune, "Long-wavelength emission from nanocone structures with embedded single InAs/InGaAlAs quantum dots grown on InP Substrates," *IPRM 2011*, Berlin, Germany.
- [4] **N. A. Jahan**, H. Iijima, C. Hermannstädter, P. Ahirwar, T. J. Rotter, G. Balakrishnan, H. Kumano, and I. Suemune, "The Thermal escape mechanism and optical Characteristics of InGaSb/AlGaSb Quantum Wells," *JSAP (Obutsu) Conference 2010*, No. A-20, pp.46, Hokkaido, Japan.
- [5] **N. A. Jahan**, H. Iijima, C. Hermannstädter, P. Ahirwar, T. J. Rotter, G. Balakrishnan, H. Kumano, and I. Suemune, "Band Structure and Thermal Escape Processes of Strained InGaSb/AlGaSb Quantum Wells," *Electronic material conference (EMC)*, June 22-24, 2011, p.89, UCSB, Santa Barbara, California, USA.
- [6] **N. A. Jahan**, C. Hermannstädter, J.-H. Huh, H. Sasakura, K. Akahane, M. Sasaki, P. Ahirwar, T. J. Rotter, G. Balakrishnan, H. Kumano, and I. Suemune, "Temperature Dependent Photoluminescence of Ensemble and Single InAs/InGaAlAs Quantum Dots," *Electronic material conference (EMC)*, June 22-24, 2011, p.88, UCSB, Santa Barbara, California, USA.
- [7] **N. A. Jahan**, C. Hermannstädter, J.-H. Huh, H. Sasakura, T. J. Rotter, P. Ahirwar, G. Balakrishnan, K. Akahane, M. Sasaki, H. Kumano and I. Suemune, "Telecommunication band photoluminescence of InAs quantum dots and

dashes embedded in different barrier materials,” 12th RIES international symposium 2011, pp. 136-137, Hokkaido, Japan.

- [8] **N. A. Jahan**, C. Hermannstädter, P. Ahirwar, T. J. Rotter, G. Balakrishnan, K. Akahane, M. Sasaki, H. Kumano and I. Suemune, “Effect of interfacial misfit arrays (IMF) on the optical properties of GaSb/AlGaSb multiple quantum wells grown on buffer free GaSb/GaAs heterojunctions,” JSAP (Obutsu) Conference 2011, p. 57, Hokkaido, Japan.
- [9] **N. A. Jahan**, C. Hermannstädter, P. Ahirwar, T. J. Rotter, G. Balakrishnan, K. Akahane, M. Sasaki, H. Kumano and I. Suemune, “Effect of interfacial misfit arrays (IMF) on the optical properties of GaSb/AlGaSb multiple quantum wells grown on buffer free GaSb/GaAs heterojunctions,” 5th international symposium on GCOE-NIGT, pp. 283-4, Proceedings of GCOE-NIGT 2012, January 16-18, 2012, Hokkaido University, Japan.
- [10] **N. A. Jahan**, C. Hermannstädter, P. Ahirwar, T. J. Rotter, G. Balakrishnan, H. Kumano, and I. Suemune, “Spectral and lifetime measurements on GaSb/AlGaSb multiple quantum wells grown on GaSb/GaAs heterojunctions with interfacial misfit arrays (IMF),” Electronic material conference (EMC), June 22-24, 2012, No. GG7, p. 110, Pennsylvania State University, USA.
- [11] **N. A. Jahan**, X. Liu, H. Sasakura, K. Akahane, M. Sasaki, H. Kumano, and I. Suemune, “Signature of reduced inter-dot coupling in telecommunication band lower-density InAs quantum dots grown on InP(311)B,” JSAP-OSA Joint symposia, 73rd JSAP Autumn meeting 2012), 13p-G1-13, Page. 119, DVD (131), Sept. 11-14th, 2012, Matsuyama, Ehime University, Japan.
- [12] **N. A. Jahan**, X. Liu, H. Sasakura, K. Akahane, M. Sasaki, H. Kumano, and I. Suemune, “InAs QDs Grown on InP(311)B for the realization of single quantum dot emission in telecommunication band,” 13th RIES-Hokudai International symposium, Dec 13-14, 2012, pp. 161-162, Hokkaido, Japan.
- [13] **N. A. Jahan**, C. Hermannstädter, K. Akahane, M. Sasaki, H. Kumano and I. Suemune, “Temperature dependence of single quantum dot luminescence: influence of inter-dot coupling,” 20th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS-20) /16th International Conference on Modulated Semiconductor Structures (MSS-16), Wroclaw, Poland, 1-5 July 2013.
- [14] N. Ishihara, R. Takemoto, **N. A. Jahan**, H. Nakajima, M. Jo, T. Mano, H. Kumano, I. Suemune, “High-Q resonance peak observed from metal-embedded InAs/GaAs quantum dot nano-cavity,” 20th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS-20) /16th International Conference on Modulated Semiconductor Structures (MSS-16), Wroclaw, Poland, 1-5 July 2013.
- [15] M Mofazzal Hossain, Md. Minhaz Ul Karim, **Nahid A Jahan**, M A Matin, “Design of a high efficiency ultrathin CdTe/CdS p-i-n Solar Cell With optimized thickness and doping density of different layer,” Int. Conf. on Advances in Electrical, Electronic & System Engineering (ICAESE 2016) 14-16 Nov 2016, Putrajaya Marriot Hotel, Malaysia. [IEEE Xplore]
- [16] **Nahid A. Jahan** and M. Mofazzal Hossain, “Synthesis of TiO<sub>2</sub> Nano particles by Pulse Modulated Induction Thermal Plasma: a Numerical Investigation,” Int. Conf. on Computer, Communication, Chemical, Materials and Electronic Engineering, 8-9 February 2018, Rajshahi University, Rajshahi, Bangladesh. [IEEE Xplore]
- [17] **Nahid A. Jahan** and M. Mofazzal Hossain, “Performance Comparison of Short and Long Torches for the Thermal Treatment of Granulated Micro-particles Using Ar-O<sub>2</sub> and Ar-He Induction Plasma,” Int. Conf. on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), 28-29 Jan 2018, Priyadarshini Engineering College, Chettiyappanur, Vellore, Tamil Nadu, India. [IEEE Xplore, will be appeared soon]

### **Thesis/Research Supervision:**

Supervised 40 undergraduate 4th year students in completing the project works, which is a partial requirement of their B.Sc. Eng. Degree.

SI #	Title of Thesis/ Research	Student Name(s)	Program	Completion Time	University
<i>Under Graduate Thesis/Project Supervision/Internship</i>					
1.	Networking Trouble Ticketing System at ROBI	Md. Obaydulla Bhuiyan	B.Sc. in ETE	2013	East West University
2.	Deployment of Wi-Fi Network supported by Information Technology Division of Fiber optic network solutions Bangladesh limited	Md. Abu Syeem Dipu	B.Sc. in ETE	2014	East West University
3.	To calculate the confined states in low dimensional structures: Quantum walls and dots	Jamshadur Rahman	B.Sc. in ETE	2016	East West University
4.	To calculate the confined states in low dimensional structures: Quantum walls and dots	Roman Ahmed Hiron	B.Sc. in ETE	2016	East West University

SI #	Title of Thesis/ Research	Student Name(s)	Program	Completion Time	University
5.	To study the variation in VOC, FSC, n for III-V semiconductors based solar cell as a function of doping	Md. Ibrahim Sarker	B.Sc. in ETE	2016	East West University
6.	To study the variation in VOC, FSC, n for III-V semiconductors based solar cell as a function of doping	Mregongka Chowdhury	B.Sc. in ETE	2016	East West University
7.	Network system of Radiant Communications Ltd.	Hasanuzzaman	B.Sc. in ETE	2016	East West University
8.	To study the light conversion efficiency in quantum dot based solar cell	Monayem Khan	B.Sc. in ETE	2016	East West University
9.	To study the light conversion efficiency in quantum dot based solar cell	Md. Shahriar	B.Sc. in ETE	2016	East West University
10.	Microsemi PTP grand master clock at FONS BD Ltd.	Md. Zillur Rahman	B.Sc. in ETE	2016	East West University
11.	Modern data center design	Md. Robiul Islam	B.Sc. in ETE	2016	East West University
12.	Investigation of quantum well (InAs/GaAs) based on solar cell characteristics	Fariha Noor E Amin	B.Sc. in ETE	2017	East West University
13.	Investigation of quantum well (InAs/GaAs) based on solar cell characteristics	Tanzia Fairuz	B.Sc. in ETE	2017	East West University
14.	Implementation of adaptive channel scheme for multi class traffic in wireless data communication	Farjana Yeasmin Trisha	B.Sc. in ETE	2017	East West University
15.	Implementation of adaptive channel scheme for multi class traffic in wireless data communication	Fatema Tuz Zohora Riya	B.Sc. in ETE	2017	East West University
16.	Implementation of adaptive channel scheme for multi class traffic in wireless data communication	Sharmin Akter Mimu	B.Sc. in ETE	2017	East West University
17.	Making games without using library function accept I/O library or any software are	Tauseef Aziz	B.Sc. in ETE	2017	East West University
18.	Internship on Billing at VOICETEL	Amir Hamza	B.Sc. in ICE	2018	East West University
19.	Internship on Transmission at VOICETEL	Mahbuba Begum Mumu	B.Sc. in ICE	2018	East West University
20.	Design, simulation and performance analysis of Quantum Dots Embedded p – i – n Solar Cell	Sanjida Sharmin	B.Sc. in ETE	2018	East West University
21.	Design, simulation and performance analysis of Quantum Dots Embedded p – i – n Solar Cell	Atonu Saha	B.Sc. in ETE	2018	East West University
22.	Solar domestic hot water system	Sujana Subrina	B.Sc. in ETE	2018	East West University
23.	Solar domestic hot water system	Nadira Sultana	B.Sc. in ETE	2018	East West University
24.	Digital Home System	Shahriar Islam	B.Sc. in ETE	2018	East West University
25.	Digital Home System	Md. Arifuzzaman	B.Sc. in ETE	2018	East West University
26.	Home Automation	Md. Kobir Hossen	B.Sc. in ETE	2018	East West University
27.	Home Automation	Faisal Ahamed	B.Sc. in ETE	2018	East West University

SI #	Title of Thesis/ Research	Student Name(s)	Program	Completion Time	University
28.	Home Automation	Fazlay Rabbi Talukder	B.Sc. in ETE	2018	East West University
29.	Project based on Arduino	Mirza Faria Binte Zaman	B.Sc. in ETE	2018	East West University
30.	Project based on Arduino	Jisan Ahmed Limon	B.Sc. in ETE	2018	East West University
31.	Design and optimization of a compact slotted micro strip patch antenna for low gain ultrawideband application around 3.6 GHz	Mir Md. Saym	B.Sc. in ETE	2018	East West University
32.	Design and optimization of a compact slotted micro strip patch antenna for low gain ultrawideband application around 3.6 GHz	Luthfun Nahar Shathi	B.Sc. in ETE	2018	East West University
33.	Design and optimization of a compact slotted micro strip patch antenna for low gain ultrawideband application around 3.6 GHz	Md. Mamunur Rashid	B.Sc. in ETE	2018	East West University
34.	Internship on core system at VOICETEL	Shuvo Ranjan Dey	B.Sc. in ICE	2018	East West University
35.	Planner Antenna Design (Reg. Sp'18)	Ayesha Akter	B.Sc. in ETE	2018	East West University
36.	Planner Antenna Design (Reg. Sp'18)	Rahat Al Roxy	B.Sc. in ETE	2018	East West University
37.	Planner Antenna Design (Reg. Sp'18)	Asifur Rahman Samrat	B.Sc. in ETE	2018	East West University
38.	Systems biology in the context of big data and networks (Reg. Sp'18)	Mobasshir Mahub	B.Sc. in ETE	2018	East West University
39.	Systems biology in the context of big data and networks (Reg. Sp'18)	Md. Shamrat Apu Gazi	B.Sc. in ETE	2018	East West University
40.	Systems biology in the context of big data and networks (Reg. Sp'18)	Sayed Al Arabi Provat	B.Sc. in ETE	2018	East West University

### Academic Awards and Scholarships:

- [1] **Japanese Government Scholarship**  
**Monbukagakusho Scholarship, MEXT, Japan, October 2009 – March 2013.**
- [2] Research Assistantship; **support for promising young researchers**  
**GCOE Program, Hokkaido University, Japan, April 2011 – March 2012.**
- [3] **The Munnujan Hall, Rajshahi University Gold Medal**  
In recognition of obtaining first class in B. Sc. (Honors.) examination, 2006 in Applied Physics and Electronic Engineering by Munnujan Hall, Rajshahi University.
- [4] Awarded merit scholarship by University of Rajshahi

### Training Received:

- [1] 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.
- [2] 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.

- [3] 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.
- [4] 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.
- [5] 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.

### **Memberships:**

- (a) Member: Japanese Society for Applied Physics (JSAP).
- (b) Member: IEEE.

### **Services to the University/Departmental Committees:**

1. **From 01 July 2019 to till-present /on-going:** serving as the convener of Decoration and Refurbish committee of EEE department, SEU, Tejgaon, Dhaka.
2. **From 06 December 2016 to 22nd December 2018:** Served as one of the three member of Departmental Development Committee of ECE department, East West University, Dhaka.
3. **From 06 December 2016 to 22nd December 2018:** Served as one of the three member of Self-Assessment Committee, ECE Dept., EWU, Dhaka.
4. **From 05 October 2013 to 22nd December 2018:** Member, Curriculum committee, Dept. of ECE, EWU, Dhaka.
5. **From 13 March 2016 to 30 March 2018:** Member, ICS Committee, EWU, Dhaka.

### **Extra- and Co-Curricular Activities:**

- 1 Completed certificate course in English from Dept. of English, Rajshahi University and stood First in the final evaluation examination.
- 2 Enrolled/Registered singer (Adhunik gaan) in Rajshahi Radio since 1998.

### **Research Community Services:**

#### **Reviewers:**

- I. 4th International Conference on Advances in Electrical Engineering (ICAEE) 2017.
- II. International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering, IC4ME<sup>2</sup>-2017.
- III. International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering, IC4ME<sup>2</sup>-2019.

### **Other Information:**

#### **1. Language Skills:**

- (a) Bengali: the mother tongue.
- (b) English: very good in listening, speaking, reading and writing.
- (c) Japanese: average in listening and speaking.
- (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<sup>++</sup>, 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: **Dr. Nazrul Islam** (Professor, Department of Chemistry, Rajshahi University)
  - Mother's name: **Nurun Naher Begum** (Housewife)
  - Date of Birth: **20<sup>th</sup> April 1983**
  - Nationality: Bangladeshi by birth
- Family Life: Married to **Dr. Akter Hossain** (PhD from Tokyo University, Japan). Currently working as an Assistant Professor, Nagoya University, Japan.

### Visited Countries

India, Japan, Malaysia, Indonesia, UAE, and USA.

### Contact Information:

#### Mail Address:

Eastern Banasree, Building 7/401, plot no 52, Road 7, Block B, Banasree, Rampura 1212, Bangladesh.

#### Office Phone:

Phone: 88-02-8878502, 8878497, 8870474, 8870475, 8870476, Ext. 117.

#### Cell Phone:

88-01828141026

#### Email:

*dnaj1983@gmail.com*

#### Webpages:

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

Facebook: /Nahid A Jahan Snigdha

### References:

- I) **Professor Ikuo Suemune, (Ph.D. supervisor):**  
**Graduate School of Information Science and Technology, Research Institute for Electronic Science, Laboratory of Quantum Nano-photonics, Hokkaido Univ., Japan. Phone: +81-11-706-9335, Fax: +81-11-706-9336, E-mail: isuemune@es.hokudai.ac.jp**
  
- II) **Professor Hidekazu Kumano:**  
**Institute of Science and Technology, Department of Electrical and Information Engineering, Fax: 025-262-7363, mail: kumano@create.niigata-u.ac.jp**
  
- III) **Professor Dr. Anisul Haque:**  
**Dept. of Electrical and Electronic Engineering**  
**East West University**  
**Aftabnagar, Dhaka 1212, Bangladesh**  
**Tel: 09666775577, Ext 303**  
**Cell: +880-1715060000**  
**E-mail: ahaque@ewubd.edu**