

Name: Sadia Sharmin

Employee ID #: 8180

Current Designation: Lecturer

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
1.	B.Sc. Engg.	Ahsanullah University of Science and Technology (AUST)	-	EEE	2016
2.	HSC	Viqarunnisa Noon School and College	Dhaka	Science	2011
3.	SSC	Viqarunnisa Noon School and College	Dhaka	Science	2009

Teaching Experience

Full-Time Experiences:

Sl #	Position	Department	University	Start	End	Length of Service
1.	Lecturer	EEE	Southeast University	02.10.2018	Continuing	1 year, 3 months

Teaching Interests:

- 1) Digital Signal Processing
- 2) Microprocessors and Interfacing
- 3) Wireless Communication
- 4) Digital Electronics
- 5) Electrical and Electronic Circuits

Research Areas:

- 1) Smart Grid Technology
- 2) Internet of Things (IoT)
- 3) Wireless sensor networks

Research Publications:

Journals:

[1] **Sadia Sharmin** and Kawser Been Amir, “An Efficient System to Measure and Monitor Voltage in Smart Grid using Zigbee Based Sensor Network”, Southeast University Journal of Science and Engineering, ISSN: 1999-1630, Vol. 12, No. 2, December 2018, pp. 40-45.

[2] **Sadia Sharmin** and Kawser Been Amir, “A Reliable Highway Based Inter-Vehicle Communication Scheme using Wireless Sensor Network and RF Technology Simultaneously”, Southeast University Journal of Science and Engineering, ISSN: 1999-1630, Vol. 12, No. 2, December 2018, pp. 55-59.

Funded Project/Development Works:

1. “Detection of lung disorders using electrical impedance” funded by Institute of Research and Training (IRT), Southeast University. This may worth of taka 1 Lac (appx).

Significant Projects:

- (a) Temperature Measurement and Location Detection of Refrigerator Truck
- (b) Heart Rate Measurement Using PIC Microcontroller
- (c) Development of Low Cost Voltage Stabilizer

Academic Awards and Scholarships:

- (a) Entitled as “IoT 300 Armies” and ranked first based on overall performance.
- (b) Achieved Dhaka Board Scholarships for meritorious result in SSC and HSC level
- (c) Honored with medals for academic excellence in SSC and HSC level

Training Received:

- [1] **Hands on training on “Internet of Things (IOT)”**, by DataSoft Systems Bangladesh Limited, **2017-2018**
Hands-on experience, building prototypes and a beta version of marketable products in IoT lab under the direct supervision of Dr. Michael Wang, USA.

Learning Areas:

- Wireless Technologies
- Embedded Systems
- Sensors (and Sensor Networks)
- IoT Standards
- IoT Research
- Device Architectures: IoT Devices, Cellular Phones
- Data Analytics and Machine Learning
- Security and Privacy, IoT Security
- Network Protocols
- Networks: Topologies, IP Networks, TCP/IP
- Communication Channels and Techniques
- Topologies and Localization

- [2] Participated in a day long workshop on “*PCB Design Using Proteus*” IEEE AUST student branch & Women in Engineering organized by Dept. of EEE, AUST
- [3] Participated in a day long workshop on “*LABVIEW Graphical (G) Programming Language Process Automation Control Systems and PLC*” organized by Professor Dr. A.K.M.Baki, Ahsanullah University of Science and Technology, Dhaka
- [4] Received 6 days trainings on, “*Implementation of Outcome Based Education*” by 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.
- [5] Participated in a day long on “*BAETE Accreditation and Outcome Based Engineering Education*”, by Prof. Dr. Arshad M. Chowdhury, Dean, School of EPS, North South University (NSU), Dhaka, Bangladesh.

Extra- and Co-Curricular Activities:

- 1 Mentor: BRACathon 3.0 (Hackathon hosted by BRAC at GP House) on 2019
- 2 Organizer: Bangladesh Physics Olympiad (Dhaka South) on 2018
- 3 Organizer: AUST EEE Fest, Ahsanullah University of Science and Technology, Bangladesh in 2014 and 2015
- 4 Volunteer: Blood Donation, Warm Clothes collection Campaign, Bangladesh from 2012-2014
- 5 Medalist: Various Athletics events from 2002-2006

Professional Experience:

- **TAS Officer** **2016-2017**
Service Assurance and Experience, Banglalink, Dhaka

Responsibilities:

- Complaint investigation & ensure end to end solution for Business to consumer (B2B, B2C & social media) segment.
- Analyze network and service QoS and prepare indicative reports correlating KPI and service experience improvement scope.

- Complaint database management & weekly customer experience analytic report preparation.
- Ensure SLA of cross-functional technology units for better service experience & analysis of IN-VAS, NSS, and IT application related complaints through customer interfaces (Contact Center, Social Media etc.) for timely resolution.
- Trending and aggregation of different technology service complaints and on-demand report preparation

Other Information:

1. Language Skills:

- (a) Bengali: the mother tongue.
- (b) English: Excellent in listening, speaking, reading and writing.

2. Computer Skills:

- (a) Operating Software: MS-DOS, WINDOWS
- (b) Programming Language: C and C++, Assembly Language for 8085 and 8086 microprocessor, Visual Basic etc.
- (c) Simulation Software: MATLAB
- (d) Graphics/Drawing Software: Visio Technical, Adobe Photoshop, Adobe Illustrator etc.
- (e) Data Analysis Software: MS EXCEL
- (f) Others: MS Word, LaTeX, MS Powerpoint, MS Access, Math Type etc.

Contact Information:

Office Phone:

Phone: 88-02-8878502, 8878497, 8870474, 8870475, 8870476, Ext. 146.

Cell Phone:

88-01745-027973

Email:

ssharmin@seu.edu.bd

Webpages:

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

LinkedIn: www.linkedin.com/in/sadia-sharmin/