

Name: Anika Aziz

Employee ID #:8169

Designation: Assistant Professor

Name of the Department: Electrical and Electronic Engineering

Name of the School: Science and Engineering



Academic Qualifications:

Name of Degree	Institution	Board	Major	Passing Year	Result/ CGPA
Ph.D	Institute of Information & Technology(IIT)	Dhaka University	Computer Network	March2017 ~ till date	ongoing
MEngSc	Electrical Engineering, University of New South Wales	Sydney, Australia	Digital Communication	Oct,2000	Satisfactory
MSc.	Applied Physics & Electronics [Renamed - Department of Electrical and Electronic Engineering]	Dhaka University	Applied Physics & Electronics	1996	1 st class 2 nd (71%)
BSc. (Hons.)	Applied Physics & Electronics [Renamed - Department of Electrical and Electronic Engineering]	Dhaka University	Applied Physics & Electronics	1994	1 st class 4 th (66%)
HSC	Ispahani Public School & College	Comilla Board	Science	1989	76.6%
SSC	Ispahani Public School & College	Comilla Board	Science	1987	80%

Tenure of Teaching/Research Experiences:**Full-Time Experiences:**

	Position	Department	University	Start	End	Length of Service
	Assistant Professor	EEE	South East University	6 th Oct,2015	continuing	
	Associate Professor	Applied Physics & Electronics	Dhaka University	June2007	Dec2011	4 and half years
	Assistant Professor	Applied Physics & Electronics	Dhaka University	April2001	June2007	6yrs, 2 months
	Lecturer	Applied Physics & Electronics	Dhaka University	Nov1997	April2001	3 years 6 months

Part-Time Experiences:

	Position	Department	University	Start	End	Length of Service
	Assistant Professor	CSE	Darul Ihsan University	June 2001	-	1 semester
	Assistant Professor	CSE	North South University	Summer 2003	-	1 semester
	Associate Professor	CSE	Institute of Science & Technology (IST)	Aug2015	Oct2015	3 months
	Research Assistant	Informatics Lab	NII, Tokyo, Japan	Dec2007	Feb2011	3 yrs, 3 months

Teaching Competences:

Expert in cognitive teaching

Expert in laboratory experimental works

Expert in Modeling and simulation of networking using ONE, OPNET, SIMSCRIPT.

Teaching Interests:

Electrical and Electronics Circuits

Computer Networks

Mobile/Satellite/Fiber Optic communication

Teaching experiences:

- Courses taught: Engineering Electromagnetics, Communication Theory, Signals & Systems, Mobile Communication, Satellite Communication, Digital Telephony, Microwave devices and Circuits, Computer Networks & Communication, Electrical Circuit Analysis, Electronics devices, Power Electronics, Communication Engineering, Electromagnetic

Theory and Antenna, Radio and Television Engineering, Fiber Optics Communication, Modern Physics, Electricity and Magnetism.

- Laboratory Supervision: Communication Theory lab, Computer Programming (C++) lab, Electrical circuits and Electronics Lab, Digital Electronics Lab.
- Undergraduate project supervision: Have experience of supervising several undergraduate students for their 4th year project work on different area of Computer Networks and Communication (attachment1).
- Masters thesis supervision: Have experience of supervising few Masters students for their MSc. thesis.

Research Areas:

Next Generation Internet
Opportunistic Network
Mobile Communication
Modeling and Simulation

Research Publications:

(a) Thesis:

- **PhD (on going) Thesis:** A Handoff-based and Limited Flooding DTN Routing Protocol ;Supervisor- Dr. Mahbulul Alam Joarder, IIT, University of Dhaka, Co-Supervisor- Dr. Farruk Ahmed, Professor, CSE, Independent University of Bangladesh
- **M.EngSc. Thesis:** Quality of Service (QoS) parameters of Available Bit Rte (ABR) video traffic over Asynchronous Transfer Mode (ATM) network.
- **MSc Thesis:** Communication link utilization in Auto Teller Machine (ATM) -based automated banking environment

(b) Journal Papers:

1. Anika Aziz and Md. Shahriar Ahmed Tausif, Modeling and Simulation of a Wireless LAN (WLAN) connected to an Ethernet using Riverbed Modeler Academic Edition 17.5, Southeast University Journal of Science, Vol 11, No. 1, June 2017.
2. A.Aziz, M.E.Haque, C.Borcea, Y.K.Hassan, and S.Yamada, *Managing disconnected mobile nodes in a Delay Tolerant Network with HALF routing protocol*, IEICE Trans. On Communications, E96-B(7), p.1691-1705, Jul.2013.
3. Anika Aziz, Mohammed Sadique Murshid, Nasrin Sultana and Syed Riad Siddique *Simulation Study and Practical Implementation of Quality of Service Parameters in MANet*, The Dhaka University journal of Science, ISSN no.1022-2502, vol.55, no.2, July 2007.
4. Shaila Akhter and Anika Aziz, *Voice over ATM network using AAL2 and AAL5: Studying the Delay and Jitter performance*, Journal of Electronic Society, ISSN:1816-1510, vol.5,no.2, December2005.
5. S. M. Riazul Islam, Md. Abdul Hai, Saifur Rahman and Anika Aziz, *Wireless ATM MAC performance evaluation: APMS-CDMA vs. DQRUMA*, The Dhaka University Journal of Science, ISSN no.1022-2502, vol.54, no.2, July 2006.

6. Naimul Islam, Anika Aziz and Farruk Ahmed, *Delay study of Balanced Buffer Dynamic Threshold (BBDT) scheme in ATM switch for multipriority traffic*, The Dhaka University journal of Science, ISSN no.1022-2502, vol.53, no.2, July 2005.
7. Rijia Sultana, Anika Aziz and Farruk Ahmed, *Buffer management in Banyan-based multistage ATM switch*, The Dhaka University journal of Science, ISSN no.1022-2502, vol.53, no.1, Jan 2005.
8. Naimul Islam, Anika Aziz and Farruk Ahmed, *A new buffer sharing scheme for shared memory ATM switch*, The Dhaka University journal of Science, ISSN no.1022-2502, vol.52, no.3, July 2004.
9. Novera Mahmood and Anika Aziz, *A study on traffic shaping and congestion control schemes in ATM network*, The Dhaka University journal of Science, ISSN no.1022-2502, vol.50, no. 2, July 2002
10. Anika Aziz and Hassan Mehrpour, *Quality of Service (QoS) parameters of Available Bit Rte (ABR) video traffic over ATM network*, The Dhaka University journal of Science, ISSN no.1022-2502, vol.50, no.1, Jan 2002.
11. Anika Aziz and Farhat Anwar, *Communication link utilization in ATM automated banking environment*, The Dhaka University journal of Science, ISSN no. 1022-2502, vol. 47, no. 1, Jan 1999.

(d) Conference Papers:

1. Anika Aziz, Presented paper on “Study on Accessibility of Telecom Devices and Broadband Internet Uses through Satellite in Rural Areas” at the national conference of Bangladesh Electronic Society, Dhaka University, 20th April, 2017.
2. Md. Enamul Haque, Yasser Kamal Hassan, Anika Aziz, Cristian Borcea and Shigeki Yamada. Route Caching in DTNs Interconnected by Infrastructure. Proceedings of the Australasian Telecommunication Networks and Applications Conference 2013 (ATNAC 2013), pp. 77-82, Christchurch, New Zealand, November 2013.
3. Anika Aziz and Shigeki Yamada, “A Handoff-based And Limited Flooding (HALF) Routing Protocol in DTN”, International Conference on Informatics, Electronics and Vision (ICIEV12), Dhaka, Bangladesh, 18-19 May, 2012.
4. Anika Aziz and Shigeki Yamada, “A Handoff Supported Routing Protocol for Disruption Tolerant Network”, BS-3-12, Proceedings of the 2010 IEICE General Conference, Sendai, Japan, March 16-19, 2010.
5. Anika Aziz and Shigeki Yamada, “Handling Mobility with an Efficient Bundle Protocol in a Disruption-Tolerant Network (DTN)”, BS-10-7, Proceedings of the 2009 IEICE Society Conference, Niigata, Japan, September 15-18, 2009.
6. Anika Aziz and Shigeki Yamada, “An Efficient Bundle Protocol to Handle Mobility & Intermittent Connectivity in DTN”, Poster presentation in the NII OPEN HOUSE, National Institute of Informatics, Tokyo, June 3-4, 2009.
7. Anika Aziz and Shigeki Yamada, “Managing Intermittent Connectivity (IC) in Delay Tolerant Network (DTN)”, BS-4-26, Proceedings of the 2009 IEICE General Conference, Matsuyama, Japan, March 17-20, 2009.
8. Anika Aziz and Shigeki Yamada, “DTN: A Preferred Networking Technology for a
9. sparsely-connected Mobile Ad Hoc Network”, BS-12-7, Proceedings of the 2008 IEICE Society Conference, Meiji University, Japan, September 16-19, 2008.

10. Anika Aziz and Shigeki Yamada, "Achieving Low End-to-end Latency with a Handoff-based Deterministic Routing Protocol (HDRP) in Delay-Tolerant Networking", International Conference on Wireless Information Network and Systems (WINSYS2010), Athens, Greece, July 26-28, 2010.
11. Anika Aziz , Shigeki Yamada and Shigeo Urushidani, "Routing in DTN based on Handoff Mechanism", 2010 IEEE International Conference on Wireless Information Technology and Systems (IEEE ICWITS) in Honolulu, Hawaii, USA on August 28-September 3, 2010
12. Anika Aziz , Shigeki Yamada and Shigeo Urushidani, "Improving Delivery Ratio with a Handoff-based Deterministic Routing Protocol (HDRP) in DTN", 6th International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM2010), Chengdu, China, September 23-25, 2010
13. Anika Aziz & Shigeki Yamada, "Storage Routing based Congestion Control in Delay Tolerant Network (DTN)", 26th Asia-Pacific Advanced Network (APAN) Network Research Workshop, Queenstown, New Zealand, August 4, 2008.
14. Mohammed Sadique Murshid, Nasrin Sultana, Syed Riad Siddique and Anika Aziz, Simulation Study and Practical Implementation of Quality of Service Parameters in MANet, First International Conference on Next Generation Wireless System (ICNEWS'06), 2-4 Jan, 2006, Dhaka, Bangladesh.
15. Shaila Akhter and Anika Aziz, Voice over ATM network using AAL2 and AAL5: Studying the Delay and Jitter performance, 8th International Conference on Computer and Information Technology (ICCIT2005), 28-30 Dec., 2005. Dhaka, Bangladesh
16. Anika Aziz, Studying the effect of variation of the Buffer size in the ATM switch for ABR service, 3rd International Conference on Electrical and Computer Engineering, ICECE 2004, BUET, Dhaka.

Thesis/Research Supervision:

Title of Thesis/ Research	Student Name(s)	Department/ Program	Completion Time	University
Post Graduate Thesis Supervision				
<i>Voice over ATM network using AAL2 and AAL5: Studying the Delay and Jitter performance</i>	Shaila Akhter	Applied Physics & Electronics	Jan2005	Dhaka University
<i>Bluetooth Technology in sensor network</i>	Shampa Rahman	Applied Physics & Electronics	April 2006	Dhaka University
<i>A study on traffic shaping and congestion control schemes in ATM network</i>	Novera Mahmood	Applied Physics & Electronics	June 2001	Dhaka University
<i>A new buffer sharing scheme for shared memory ATM switch</i>	Naimul Islam	Applied Physics & Electronics	October 2002	Dhaka University

	Title of Thesis/ Research	Student Name(s)	Department/ Program	Completion Time	University
	<i>Buffer management in Banyan-based multistage ATM switch</i>	Rijia Sultana	Applied Physics & Electronics	October 2002	Dhaka University
Post Graduate Thesis External Examiner					
N/A					
Under Graduate Thesis/Project Supervision					
	<i>Simulation Study and Practical Implementation of Quality of Service Parameters in MANet</i>	Mohammed Sadique Murshid, Nasrin Sultana and Syed Riad Siddique	Applied Physics & Electronics	July 2007	Dhaka University
	<i>Simulation Analysis and Practical implementation of AD-HOC ON-DEMAND Distance Vector Routing Protocol</i>	Dilruba Yasmin Rumana Khorshed	Applied Physics & Electronics	July 2007	Dhaka University
	<i>Wireless ATM MAC performance evaluation: APMS-CDMA vs. DQRUMA</i>	S. M. Riazul Islam, Md. Abdul Hai, Saifur Rahman	Applied Physics & Electronics	July 2006	Dhaka University
	<i>Study of different queuing policies and Bandwidth scheduling techniques at an edge router to introduce QoS over Ethernet</i>	Afsana Yusuf, Fahmin Rezwana, Parvin Akhter	Applied Physics & Electronics	2005	Dhaka University
	<i>The challenges of MAC protocol implementations in Mobile Ad hoc Network (MANET) and possible solution by using different MAC protocols</i>	Md. Samiul Islam Sadek Mahamudul Alam Tanvir Atahary	Applied Physics & Electronics	2006	Dhaka University
	<i>Copper performance of Gigabit Ethernet</i>	Rawanak Jahan Lira, Shahela Parveen, Mustari Yasmeen, Anika Nuresh Shams	Applied Physics & Electronics	June 2004	Dhaka University
	<i>Power saving in wireless sensor network</i>	MD. Bazlur Rahman Khan, Abu Bakar Siddique, Prianka Rani Majumder	ETE	Fall2015	South East University
	<i>Delay Tolerant Networking for developing countries</i>	Shahin Alam, Alamgir Hossain	ETE	Fall2015	South East University
	<i>RWP movement model for DTN</i>	Shahin Alam	ETE	Spring 2016	South East University

	Title of Thesis/ Research	Student Name(s)	Department/ Program	Completion Time	University
	Wireless Network simulation using Riverbed Modeler Academic Edition 17.5 (OPNET)	Tousif	ETE	Summer 2016	South East University
	Broadband Internet service through Satellite	Showrov, Farhana & Mehedi	ETE	Fall 2016	South East University
	WSNs in Smart City	Tanjina, Alamgir & Kayes	ETE	Fall 2016	South East University

Academic Awards and Scholarships:

- 1. AusAID award under Australian Development Scholarship (ADS) program to do MEngSc. in Australia, 1999**
- 2. NII (National Institute of Informatics) scholarship for doing PhD in Informatics, Tokyo, Japan.**

Training Received:

- 1. Training Program on ‘The Role and Responsibilities & Ethical Principles of University Teachers’, organized by Institutional Quality Assurance Cell (IQAC), South East University, 11th May2016.**
- 2. Participated in a two day long workshop on Comsol Multiphysics for Semiconductor Device Design and Characterization at South East University, on 31st March and 2nd April.**
- 3. A workshop on three primary colours of teaching, learning and perceiving methods. Shonan village, Graduate University of Advanced Studies, Tokyo, Japan, Dec2008.**

Memberships:

- 1. Member of Electronic Society of Bangladesh(BES)**
- 2. Member of Organization for Women in Science for the Developing World (OWSD), National chapter, Bangladesh**

Professional Activities:

- 1) Member Secretary – Committee for research and project, Dept. of EEE, SEU**
- 2) Member Secretary – Committee of Lab development, Dept. of EEE, SEU**
- 3) Student advisor in the department of Applied Physics & Electronics, Dhaka University for 2 years.**

Extra-Curricular Activities:

- 1. Have experience of organizing different cross-cultural programs, representing Bangladesh in abroad.**

2. Have worked as a Vice President at the regional branch in Dhaka, of Bangladesh Air Force Womens' Welfare Association (BAFWWA), for two years.

Community Services:

1. Worked as the Reviewer of the 'Dhaka University Journal of Science' published by the University of Dhaka
2. Worked as the Reviewer of the 'South East University Journal of Science' published by the South East University

Industry Visits:

1. Industrial visit to TeleTalk Bangladesh Ltd. Soft Switch, MGW, BSC, RNC and BTS at Gulshan with the students of ETE Department of South East University on 03 Dec, 2015.
2. Visited the Landing Station of Bangladesh Submarine Company limited at Cox's bazaar as a part of the study tour of EEE and ETE department of SEU.

Contact Information:

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Cell Phone:

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Other Information:

Proficiency in English, overall IELTS score 7.5