

## Curriculum Vitae

### **PROF. DR. MD. ABDUR RAZZAQUE**



<b>PERSONAL PARTICULARS AND CONTACT DETAILS</b>	<p>Date of birth: January 5, 1975 Nationality: Bangladeshi Room # 422, Department of Computer Science and Engineering, University of Dhaka, Dhaka 1000, Bangladesh. Telephone: +880 2 9661920-70, Ext. 7421 (Off) Cell: +88-01841-066-390 E-mail: <a href="mailto:razzaque@du.ac.bd">razzaque@du.ac.bd</a>, <a href="mailto:razzaque@cse.du.ac.bd">razzaque@cse.du.ac.bd</a>, <a href="mailto:razzaque@ieee.org">razzaque@ieee.org</a> Web: <a href="https://du.ac.bd/body/faculty_details/cse/1768#">https://du.ac.bd/body/faculty_details/cse/1768#</a> Google Scholar Citations: 3416, h-index: 34, i10-index: 81 <a href="https://scholar.google.com/citations?hl=en&amp;user=1yMUb7wAAAAJ&amp;view_op=list_works&amp;sortby=pubdate">https://scholar.google.com/citations?hl=en&amp;user=1yMUb7wAAAAJ&amp;view_op=list_works&amp;sortby=pubdate</a></p>
<b>PROFESSIONAL CAPACITY</b>	<ul style="list-style-type: none"><li>• Demonstrate academic leadership with devotion, integrity, honesty, and sincerity</li><li>• Demonstrate creativity in planning, designing and solving unseen problems</li><li>• Proactive, hardworking and self-disciplined</li><li>• Receptive to constructive criticism</li><li>• Strong interpersonal skills</li><li>• Exhibit common sense</li><li>• Resilient and Perseverant</li><li>• Focused on achieving both institutional objectives and individual career goals</li></ul>
<b>PROFESSIONAL MEMBERSHIPS</b>	<ul style="list-style-type: none"><li>• Senior Member, Institute of Electrical and Electronic Engineering, NY, USA</li><li>• Member, IEEE Communications Society, USA</li><li>• Member, IEEE Computer Society, USA</li><li>• Member, Internet Society (ISOC)</li><li>• Member, Korean Information Processing Society (KIPS)</li><li>• Member, Pacific Telecommunications Council (PTC)</li><li>• Member, 2022 Executive Committee of IEEE Computer Society Bangladesh Chapter</li></ul>
<b>SERVING/ SERVED POSITIONS</b>	<p>Chairman (19 Feb 2024 ~ till date) Department of Computer Science and Engineering, University of Dhaka, Bangladesh.</p> <p>Professor (27 Oct 2014 ~ till date) &amp; Director, Green Networking Research Group Department of Computer Science and Engineering, University of Dhaka, Bangladesh</p> <p>Former Pro Vice-Chancellor, Dean (FSE), and Chairperson (CSE Dept) (2016-2021), Green University of Bangladesh</p> <p>Member, Syndicate Committee, Green University of Bangladesh, 2018 to till date Member, Academic Council, University of Dhaka, 2014 to till date Member, Academic Council, Bangladesh University of Engineering and Tech., Feb 2024~till date</p>

	<p>Member, Academic Council, Green University of Bangladesh, 2016-till date</p> <p>Member, Faculty Selection Committee, CSE, University of Dhaka, 2019-till date</p> <p>Coordinator, Professional Masters of Information and Cyber Security (PMICS) Committee, CSE DU</p> <p>Convener, Program Self-Assessment Committee (PSAC), CSE DU, 2022-2023</p> <p>Member, ICT Scholarship and Innovation Grant Award Committee, DoICT, 2023 to till date</p> <p>Member, ICT Scholarship and Innovation Grant Evaluation Committee, DoICT, 2022 - 2023</p> <p>Expert Member, ICT Risk Management Framework Development Committee, Bangladesh Bank</p> <p>Expert Member, ePassport and Autonomous Immigration Proj. Eval. Committee, 2022-till date</p> <p>Expert Member, Reinvention of ICT Department, CMSF (BSEC), Dhaka, 2022-till date</p> <p>Member, Faculty Selection Committee, CSE, CUET, 2020-till date</p> <p>Member, Faculty Selection Committee, CSE, Khulna University, 2022-till date</p> <p>Convener, Committee for Inception of Open Credit Curriculum, FoET, DU, 2022-2023</p> <p>Member, Committee for Faculty of Electrical Engineering, DUET, 2020-2022</p> <p>Member, Finance Committee, Green University of Bangladesh, 2018-2022</p> <p>Member, Disciplinary Committee, Green University of Bangladesh, 2019-2022</p> <p>Convener, Committee for framing 10 Years Academic Master Plan for GUB, 2021-2022</p> <p>Convener, Admission Committee, Green University of Bangladesh, 2019-2021</p> <p>Convener, Credit Equivalence Committee, Green University of Bangladesh, 2019-2021</p> <p>Convener, Committee for Revision of Pay Scales (2020), Green University of Bangladesh</p> <p>Chair, IEEE Computer Society Bangladesh Chapter Executive Committee, 2021, 2020</p> <p>Vice-Chair, IEEE Computer Society Bangladesh Chapter Executive Committee, 2019, 2018</p>
<p><b>SHORT BIOGRAPHY</b></p>	<p>Dr. Md. Abdur Razzaque is a Professor and Chairman of the Department of Computer Science and Engineering at University of Dhaka. He received his BS in Applied Physics and Electronics and MS in Computer Science from the University of Dhaka, Bangladesh in 1997 and 1999, respectively. He obtained a PhD in Computer Engineering from Kyung Hee University, South Korea in August, 2009. He worked for Green University of Bangladesh as Pro Vice Chancellor, Dean of Faculty of Science and Engineering and Chairperson, Dept. of CSE during 2016-2021. He was a research professor, College of Electronics and Information, Kyung Hee University, South Korea during 2010-2011. He worked as a visiting professor in Stratford University, Virginia, USA in 2017. He is the director of Green Networking Research Group (<a href="http://cse.du.ac.bd/gnr">http://cse.du.ac.bd/gnr</a>) of the Dept. of CSE, DU. He has been promoting Outcome Based Education for Science and Engineering Faculties of leading universities of the country. He was the principal investigator of some national and international research projects funded by the Government of Bangladesh and the Information Society Innovation Fund (ISIF) Asia. His research interest is in the area of modeling, analysis, and optimization of wireless networking protocols and architectures, Mobile Crowdsourcing, Sensor Data Clouds, the Internet of Things, Edge Computing, etc. He has published 180+ research papers in peer-reviewed international conferences and journals. He is an Associate Editor of IEEE Access, editorial board member of the Journal of Networks and Applications (JNCA, Elsevier), and International Journal of Distributed Sensor Networks, General Chair of STI 2022-2019, TPC Chair of ICIET 2019-2018, TPC member of IEEE HPCC, ICOIN, SCALCOM, SKIMA, ICIEV, ADM, NSysS, ICACCI, etc. He is a senior member of IEEE, member of IEEE Communications Society, IEEE Computer Society, Internet Society (ISOC), Pacific Telecommunications Council (PTC), and KIPS. He chaired 2020 and 2021 Executive Committees for the IEEE Computer Society Bangladesh Chapter.</p>
<p><b>CONSULTANCY SERVICES</b></p>	<ul style="list-style-type: none"> <li>• Convener, Index Anomaly Inquiry Committee, Dhaka Stock Exchange, March 2024</li> <li>• Expert Member, Risk Management Committee for ICT Services of Bangladesh Bank, (2023-2024)</li> <li>• Expert Member, Appointment of Consultants for ePassport PROJECT, Home Ministry, Govt.</li> </ul>

	<p>of Bangladesh (2023)</p> <ul style="list-style-type: none"> <li>• Expert Member, Reinventing ICT Department of CMSF (BSEC), Motijheel, Dhaka (2022-2023)</li> <li>• Expert Member, Evaluation of Funded Research Project, University Grants Commission of Bangladesh (2022)</li> <li>• Expert Member, e-PASSPORT PROJECT, Home Ministry, Govt. of Bangladesh (2022)</li> <li>• Expert Member, IT Systems Operations, Security and UAT Performance Testing for Dhaka Stock Exchange (2021-2022)</li> <li>• Expert Technical Member (Question preparation, Coding, Composing, Editing, Printing, answer script evaluation and result processing), Dhaka University Technology Unit Admission Test for Undergraduate Students (2022)</li> <li>• Expert Technical Member (Question preparation, Coding, Composing, Printing, answer script evaluation and result processing), Dhaka University Undergraduate Admission Test for KA Unit (2016)</li> <li>• Expert Technical Member (Question Composing, Printing, Answer Script Evaluation and Result Processing), Dhaka University Undergraduate Admission Test for KA Unit (2015)</li> <li>• Expert Member, UAT of Network Design, Planning and Commissioning in Titas Gas Transmission and Distribution Limited (2014)</li> <li>• Expert Member, Pubali Bank Senior IT Officer Recruitment, (2014)</li> <li>• Expert Member, DBBL Probationary Officer (Software, Hardware, Network and Card Operations) (2012)</li> <li>• Team Lead, Sonali Bank IT Officer Recruitment, (2011)</li> <li>• Expert Technical Member (Question Composing, Printing, Answer Script Evaluation and Result Processing), Dhaka University Undergraduate Admission Test for GHA Unit (2004)</li> <li>• Convener of Committee for Campus Wide Network in Islamic University of Technology (IUT) – Network design, planning, VSAT and Optical Fiber Installation, supervision of LAN equipment purchase, commissioning and performance testing, 2003-2004</li> </ul>
<p><b>RESEARCH INTERESTS</b></p>	<ul style="list-style-type: none"> <li>• Mission Critical Applications of Unmanned Aerial Vehicles, Path Planning and Optimization</li> <li>• Internet of Things and Big Data</li> <li>• Digital Twin, Edge Intelligence, 5G, and Smart City Applications</li> <li>• Mobile Crowdsensing and Crowdsourcing Systems</li> <li>• Cloud and Mobile Cloud Computing</li> <li>• Resource Scheduling, Mobility Management, and Energy Efficiency in 5G</li> <li>• Distributed Systems</li> <li>• QoS, Routing, MAC and Congestion Control issues in various wireless networks</li> <li>• Analysis of Computer Communications and Networking Protocols</li> </ul>
<p><b>RESEARCH PROJECTS AND GRANTS</b></p>	<ul style="list-style-type: none"> <li>• Principal Investigator of the project "Maximizing Quality of Experience of Mobile Application Users in Collaborative Edge Computing", UGC Research Grant 2022-2023, Univ of Dhaka</li> <li>• Principal Investigator of the project "Information and Communication Technology Assisted Safe Driving for Mitigating Road Accidents in Bangladesh", BDT 13.05 Lacs, Funded by the Ministry of Posts, Telecommunication and Information &amp; Communication Technology, Government of Bangladesh, FY 2014-2015.</li> <li>• Consultant of the project "Mitigating Road Accidents in Kingdom of Saudi Arabia Using Sensor Data Cloud Technologies", 1.3Million SAR, To be carried out by Information Systems Department of King Saud University, 2019-2022</li> <li>• Consultant of the project "Design and Development of Precision Agriculture Information System Using Sensor Data Cloud", 1.43Million SAR, To be carried out by faculty of Computing and Information Technology, King Abdul Aziz University, Kingdom of Saudi Arabia, 2019-2021</li> <li>• Project Director, "Reducing Energy Costs in Mobile Cellular Networks" – Funded by</li> </ul>

	<p>University Grants Commission, Bangladesh, BDT 112.5K, Special Research Allocation of FY 2010-2011</p> <ul style="list-style-type: none"> <li>• Principal Investigator of the project "Real Time Detection of Crop Diseases and Pests Using Image Sensor Network Technology" – Funded by Ministry of Science and Technology, Government of Bangladesh, BDT 750K, Special Research Allocation of FY 2013-2014</li> <li>• Principal Investigator of the Project "Driver Distraction Management Using Sensor Data Cloud" – Funded by the Information Society Innovation Fund (ISIF) Asia, AUD30,000/=, Feb 2013 to Jan 2014</li> <li>• Principal Investigator of the project "Development of Efficient Algorithms for Stemming in Bengali" – Funded by Code Crafters International, Dhaka, Bangladesh, BDT 200K, Sep 2013 – Feb 2014</li> <li>• Principal Investigator of the project "Design and Development of Precision Agriculture Information System for Bangladesh" – Funded by Ministry of Science and Technology, Government of Bangladesh, BDT 400K, Special Research Allocation of FY 2012-2013</li> <li>• Winner of ISIF Asia Award 2013 (Community Choice category) for the project "Design and Development of Precision Agriculture Information System for Bangladesh", AUD 3000/=, Awarded in the 8<sup>th</sup> Internet Governance Forum (IGF 2013), Bali, Indonesia, 22-25 Oct 2013</li> </ul>
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EDUCATION	Degree/Certificate	Year of passing	Institution/Country
	Doctor of Philosophy in Computer Engineering	August 2009	Kyung Hee University, Republic of Korea
	Master of Science in Computer Science	October 1996 (held in 1999)	University of Dhaka, Bangladesh
	Bachelor of Science in Applied Physics and Electronics	July 1995 (held in 1997)	University of Dhaka, Bangladesh
	Higher Secondary Certificate (Science Group)	April 1992	Ishurdi Govt. College, Ishurdi, Pabna, Bangladesh
	Secondary School Certificate (Science Group)	March 1990	North Bengal Paper Mills High School, Paksey, Pabna

RESEARCH SUPERVISION	1. Doctor of Philosophy (PhD)	
	<b>Completed (3)</b>	<b>Ongoing (5)</b>
	<ol style="list-style-type: none"> <li>1. Dr. Maheen Islam (2017), CSE, EWU (Congestion and Rate Control Issues in Wireless Mesh Networks)</li> <li>2. Dr. Selina Sharmin (2018), CSE, JnU (Coverage and Connectivity Issues in Directional Sensor Networks)</li> <li>3. Dr. Fernaz Narin Nur (2018), CSE, NU (MAC Protocol for Directional Sensor Networks)</li> <li>4. Dr. Sajeeb Saha (2021), CSE, JnU (Mobile Device Cloud Computing)</li> <li>5. Dr. Md. Ahsan Habib (2022), CSE, MBSTU (Starfish Routing in Sensor Networks)</li> </ol>	<ol style="list-style-type: none"> <li>6. Ms. Nahar Sultana Enrolled in Jan 2021 (Quality of Service in NBIoT)</li> <li>7. Ms. Farhana Huq Enrolled in Jan 2021 (Mobile Crowdsourcing in Smart City)</li> </ol>
	2. Master of Philosophy (M. Phil)	
	<b>Completed (2)</b>	<b>Ongoing (0)</b>
	<ol style="list-style-type: none"> <li>1. Nahar Sultana Enrolled in 2019, CSE, DU</li> <li>2. Farhana Huq Enrolled in 2019, CSE, DU</li> </ol>	<ol style="list-style-type: none"> <li>3. Sumaiya Islam Enrolled in Dec., 2022 (Throughput and Reliability Issues in Semantic Networking)</li> </ol>

3. Master of Science (MS) in Computer Science and Engineering

Completed (21)	Ongoing (2)
<ol style="list-style-type: none"> <li>1. Dr. Mohammad Shahriarh (2005), Chair, CSE, ULAB</li> <li>2. Dr. Md. Manowarul Islam (2013), Assoc. Prof, CSE, JnU</li> <li>3. Dr. Md. Mahfuzur Rahman Bosunia (2013), Director, Bangladesh Bank</li> <li>4. Uzzal Dutta (2014), Soft Engr, Enosis</li> <li>5. Dr. Mahbub-E-Khoda (2014) Data Science Specialist, Telstra, Australia</li> <li>6. Iffat Anjum (2015), Lecturer, CSE, DU</li> <li>7. Asma Enayet (2015), Lecturer, CSE, DU</li> <li>8. Tamal Adhikary (2015), Lecturer, CSE, DU</li> <li>9. Nusrat Mehajabin (2015), Lecturer, CSE, DU</li> <li>10. Dr. Madiha Tabassum (2015), UNCC, USA</li> <li>11. Dr. Chadni Islam (2015), RMIT, Australia</li> <li>12. Amit Kumar Das (2015), Lecturer, CSE, EWU</li> <li>13. Sayef Azad Sakin (2016), PhD Student, The University of Arizona, USA</li> <li>14. Md. Mofijul Islam (2017), Lecturer, CSE, DU</li> <li>15. Ridi Hossain (2017), PhD Student, NUS, Singapore</li> <li>16. Sujan Sarker (2018), Asst. Prof., RME, DU</li> <li>17. Dr. Mahbuba Afrin (2018), UniMelbourne, Australia</li> <li>18. Mahir Ashhab (2020), Asst. Prof., East West Univ, Dhaka</li> <li>19. Jargis Ahmed (2022), Lecturer, Green University</li> <li>20. Palash Roy (2022), Lecturer, Green University</li> <li>21. Anika Tahsin (2022), Senior Officer, Rupali Bank</li> <li>22. Tanvir Arafat Anik (2024), Lecturer, Brac University</li> </ol>	<ol style="list-style-type: none"> <li>23. Sadia Jahangir Safa</li> <li>24. Shabab Morshed</li> </ol>

4. Bachelor of Science (BS) in Computer Science and Engineering

Completed: 88

Ongoing: 8

5. Thesis Evaluation Committee (External Member)

- (a) MS Thesis (Jan 2015) - Mr. Md. Mahfuzul Islam Chowdhury (CSE, CUET)
- (b) MS Thesis (Jan 2014) – Mr. Md. Fazlul Kader (CSE, CUET)
- (c) PhD Thesis (Apr 2015) – Mrs. Moriom Akhtar (CSE, JU)
- (d) MS Thesis (May 2016) - Sakib Anower (CSE, BUET)
- (e) MS Thesis (July 2017) – Tanvir Ahmed (CSE, BUET)
- (f) MS Thesis (June 2019) – Mr. Amirul Islam (IICT, BUET)
- (g) PhD Thesis (July 2019) – Novia Nourin (CSE, BUET)
- (h) PhD Thesis (Jan 2020) – Raenu Kolandaisamy (CSE, Univ of Malaya, Malaysia)
- (i) PhD Thesis (Sep 2020) – M. Asif Hossain (CSE, Univ of Malaya, Malaysia)
- (j) PhD Thesis (August 2021) – M. Fawad Ali Khan (CSE, Univ of Malaya, Malaysia)
- (k) PhD Thesis (Oct 2021) – Ms. Salmah Fattah (CSE, Univ of Malaya, Malaysia)
- (l) PhD Thesis (Feb 2022) – Ms. Shapla Khanam (CSE, Univ of Malaya, Malaysia)
- (m) PhD Thesis (Apr 2022) – Ms. Aizal Yusrina Idris (Faculty of Education, University of Malaya, Malaysia)
- (n) PhD Thesis (May 2022) – Md. Shakhawat Hossen (CSE, Islamic University of Technology, Bangladesh)
- (o) PhD Thesis (Sep 2022) – Sarah Iqbal (CSE, University of Malaya, Malaysia)
- (p) PhD Thesis (Oct 2022) – Ms. Fathima Nasreen (Faculty of Education, University of Malaya, Malaysia)
- (q) PhD Thesis (Oct 2022) - Mr Haftu Tasew Reda (Department of Computer Engineering, La Trobe University, Australia)
- (r) M.Sc. Thesis (Apr 2023) – Ms. Ishrat Jahan (Department of Computer Science and Engineering, BUET, Dhaka, Bangladesh)
- (s) PhD. Thesis (May 2023) – Ms. Jannatun Noor (Department of Computer Science and Engineering, BUET, Dhaka, Bangladesh)

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|  | <ul style="list-style-type: none"><li>(t) PhD Thesis (May 2023) – Ms. Khin Thandar (Faculty of Education, University of Malaya, Malaysia)</li><li>(u) PhD Thesis (July 2023) – Bryan Raj (Faculty of Computer and Information Technology, University of Malaya, Malaysia)</li><li>(v) PhD Thesis (August 2023) – Peng Ran (Faculty of Education, University of Malaya, Malaysia)</li><li>(w) PhD Thesis (October 2023) – Usman Ali (Faculty of Computer Science and Information Technology, University of Malaya, Malaysia)</li><li>(x) PhD Thesis (November 2023) – Noormala Binti (Faculty of Education, University of Malaya, Malaysia)</li><li>(y) PhD Thesis (August 2024) - Yuliang Jiao (Faculty of Education, University of Malaya, Malaysia)</li><li>(z) PhD Thesis (August 2024) – Farnaz Fotovvatikhah (Faculty of Computer Science and Information Technology, University of Malaya, Malaysia)</li></ul> |
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**EMPLOYMENT HISTORY**

**Post:** Professor, Dept. of Computer Science & Engineering.

**Employer:** University of Dhaka, Bangladesh.

**Duration of Job:** 27 Oct 2014 ~ till date

**Responsibilities:** Developed Open Credit System Rules and Regulations for Faculty of Engineering and Technology; Coordinator for Professional Masters in Information and Cyber Security Program (PMICS), Convener of Program Self-Assessment Committee (PSAC), Developed Curriculum for B.Sc. in CSE, Developed MS courses – Internet of Things, Network Performance Analysis, Cloud Computing, Green Networking, etc.; Conducting classes and research projects, research publications, supervising MS and PhD students on Internet of Things, Crowdsourcing, Edge Intelligence, 5G and Smart City Applications, Digital Twinning, Semantic Communication, etc.

**Post:** Pro Vice Chancellor,

**Employer:** Green University of Bangladesh.

**Duration of Job:** 1 October 2019 ~ 20 September 2021

**Responsibilities:** Academic administration, Leading design and implementation of Outcome Based Education system, Hiring Senior Faculty Members, Faculty and Staff Recruitment, Oversee Purchase Management System, Administering Admission Processes, Oversee Research and Development Activities, Planning Infrastructural Development, Optimizing Utilization of Physical and Logical resources, Administering Certificate/Marksheet verification, Credit Equivalences, Examinations and Result Processing Systems, Oversee IT services systems and Lead ERP Software development for the University.

**Post:** Dean, Faculty of Science & Engineering.

**Employer:** Green University of Bangladesh.

**Duration of Job:** 10 January 2019 ~ 20 September 2021

**Responsibilities:** Academic administration, Introduction of OBE systems, BAETE accreditation of Engineering degree programs, Organizing International Conference, Publication of Journal of Science and Engineering, Development of Curriculum and Formulation of Policies for improving quality teaching, learning and evaluation systems.

**Post:** Visiting Professor, Dept. of Computing and Information Systems

**Employer:** Stratford University, Virginia, USA

**Duration of Job:** 6 Jan 2017 ~ 14 Mar 2017

**Responsibilities:** Conducting Graduate Classes and Research Projects, Writing Research Proposals, Supervising MS and PhD Students, Research Article Writing.

**Post:** Chairperson and Professor, Dept. of Computer Science & Engineering.

**Employer:** Green University of Bangladesh.

**Duration of Job:** 21 September 2016 ~ 30 Sep 2019

**Responsibilities:** Academic administration of the Department, Faculty recruitment planning, Lead all academic activities for BAETE accreditation of B.Sc. in CSE Program, Introduced Outcome Based Education, Development of Laboratories, Preparation of Routines, Conducting classes and research projects, research publications, supervising research projects, etc.

**Post:** Associate Professor, Dept. of Computer Science & Engineering.

**Employer:** University of Dhaka, Bangladesh.

**Duration of Job:** 14 January 2012 ~ 26 Oct 2014

**Responsibilities:** Conducting classes and research projects, research publications, supervising MS and PhD students on Wireless Sensor Networks, Wireless Mesh Networks, Body Sensor Networks, Cooperative Communications, etc.

**Post:** Research Professor

**Employer:** School of Electronics and Information, Kyung Hee University, South Korea.

**Duration of Job:** 1 February 2010 ~ 31 January 2011

**Responsibilities:** Conducting research projects, research publications, supervising MS and PhD students on Wireless Sensor Networks, Wireless Mesh Networks, Body Sensor Networks, Cooperative Communications, etc.

**Post:** Post Doctoral Fellow, Institute of Multimedia Technology

**Employer:** Kyung Hee University, South Korea

**Duration of Job:** 1 September 2009 – 31 January 2010

**Responsibilities:** Conduct ITRC research projects, supervising researches of MS and PhD students of the Networking lab and research publications.

**Post:** PhD Student and Research Assistant, Dept. of Computer Engineering.

**Employer:** Kyung Hee University, South Korea

**Duration of Job:** March 2006 to August 2009

**Responsibilities:** Completion of course works, research study and publishing quality research papers on various fields of wireless networks, conduct research projects from Samsung, KT, LG, ITRC, etc.

**Post:** Asst. Professor, Dept. of Computer Science & Engineering.

**Employer:** University of Dhaka, Bangladesh.

**Duration of Job:** September 26, 2005 to January 13, 2012

**Responsibilities:** To conduct classes at graduate and undergraduate levels, supervising research theses and projects, and perform administrative duties in various committees.

**Taught Courses:** Mobile Computing, Computer Networks, Wireless Communication Engineering, Data and Telecommunications, Operating Systems, Distributed Operating Systems, Assembly Language Lab, Computer Peripherals and Interfacing, Digital Electronics, Microprocessor, Data Structure.

**Post:** Lecturer, Dept. of Computer Science and Engineering.

**Employer:** University of Dhaka, Bangladesh.

<b>THESIS WORKS</b>	<p><b>PhD Thesis Title:</b> Quality of Service Provisioning in Large-Scale Wireless Sensor Networks</p> <p>Supervisor's Name: Prof. Choong Seon Hong, Kyung Hee University, South Korea (2009).</p> <p>Brief Overview: In my PhD research project, I have developed a novel packet delivery mechanism called DARA for wireless sensor networks to provide service differentiation and soft-Quality of Service guarantees in the delay and reliability domains, while preserving energy efficiency of the network. For the delay constraint, I provide multiple network-wide speed options so that various traffic types can dynamically choose the proper speed options for their packets depending on their end-to-end deadlines. For the reliability domain, I use optimized multipath forwarding to control the number of packet delivery paths depending on the required end-to-end reaching probability. Finally, my contribution is to maximize QoS provisioning in WSNs.</p> <p><b>MS Thesis Title:</b> Study on Virtual Circuit Management in Wireless ATM (WATM) Networks</p> <p>Supervisor's Name: Prof. Dr. M. Lutfar Rahman, University of Dhaka, Bangladesh (1999).</p>
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<b>PROFESSIONAL SERVICES</b>	<p><b>Senior Member of IEEE (SMIEEE) since 2014</b></p> <p><b>Chair (2021, 2020) of IEEE Computer Society BD Chapter (IEEE BDC)</b></p> <p><b>Vice Chair - Technical (2019) of IEEE Computer Society BD Chapter (IEEE BDC)</b></p> <p><b>Vice Chair - Technical (2018) of IEEE Computer Society BD Chapter (IEEE BDC)</b></p> <p><b>Vice Chair - Technical (2018) of IEEE Bangladesh Section (IEEE BDS)</b></p> <p><b>Membership Dev Coordinator (2017) of IEEE Bangladesh Section (IEEE BDS)</b></p> <p><b>Treasurer, Executive Committee (2016) of IEEE Bangladesh Section (IEEE BDS)</b></p> <p>Associate Editor, IEEE Access  Editor, Elsevier's Journal of Network and Computer Applications</p> <p>Editor in Chief, GUB Journal of Science and Engineering (GUBJSE)</p> <p>Lead Guest Editor, International Journal of Distributed Sensor Networks (IJDSN), Member of Editorial Board, International Journal on Internet and Distributed Computing Systems (IJIDCS)  General Chair, International Conference on Sustainable Technologies for Industry 5.0 (2023-2024)  General Chair, International Conference on Sustainable Technologies for Industry 4.0 (STI 2019-22)  General Co-Chair, IEEE Region 10 Humanitarian Technology Conference (R10HTC), 2017  TPC Chair, International Conf on Innovation in Engineering and Technology (ICIET), 2018-2019</p> <p>Technical PC Member, IEEE HPCC 2013-2019, ICOIN 2010-2019, ICACT 2010-2019, NSysS 2015-2020, ICUFN 2014-2020, ICA3PP 2016, DependSys 2014-2020, SKIMA 2014-2019, ScalCom 2015, etc.</p> <p>Reviewer, IEEE Transactions on Mobile Computing, IEEE Transactions on Wireless Communications, IEEE Transactions on Parallel and Distributed Systems, Software: Practice and Experiences, Elsevier's Ad Hoc Networks, Computers and Electrical Engineering, Computer networks, and Computer Communications, Journal of Communications and Networks, EURASIP Journal on Wireless Communications and Networks, Journal of Sensors, Annals of Telecommunications and many other international journals.</p> <p>Reviewer, IEEE CCNC, IEEE WCNC, IEEE SenSys, APNOMS, NOMS, ICACT, ICOIN, and many other international conferences.</p>
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LIST OF PUBLICATIONS	<i>International Journals</i>
S	<ol style="list-style-type: none"> <li>1. Nahar Sultana, Farhana Huq, Palash Roy, Md. Abdur Razzaque, Md. Mustafizur Rahman, Taiyeba Akter, Mohammad Mehedi Hassan, <b>Context-Aware Clustering and Meta Heuristic Resource Allocation for NB-IoT D2D Devices in Smart Healthcare Applications</b>, Journal of Future Generation Computer Systems (Elsevier), 14 August 2024 (<a href="https://authors.elsevier.com/c/1jbG6,3q5xo26s">https://authors.elsevier.com/c/1jbG6,3q5xo26s</a>). [Q1, IF: 6.2]</li> <li>2. Farhana Huq, Nahar Sultana, Md. Abdur Razzaque, Shamsul Huda, Mohammad Mehedi Hassan, <b>Cross Regional Online Food Delivery: An E-business Framework, Service Quality Optimization, and Real-time Order Assignment</b>, Journal of Computers and Operations Research (Elsevier), 14 August 2024, (Submitted for 2<sup>nd</sup> round review). [Q1, IF: 4.1]</li> <li>3. Sujan Sarker, Md. Tanvir Arafat, Aiman Lameesa, Mahbuba Afrin, Redowan Mahmud, Md. Abdur Razzaque and Tariq Iqbal, <b>FOLD: Fog-Dew Infrastructure-aided Optimal Workload Distribution for Cloud Robotic Operations</b>, Internet of Things (Elsevier), 9 April 2024. [Q1, IF: 5.9]</li> <li>4. Shabab Murshed, Abu Shaikh Nibir, Md. Abdur Razzaque, Palash Roy, AZ Elhendi, Md. Rafiul Hassan, MM Hassan, <b>Weighted Fair Energy Transfer in a UAV Network: A Multi-Agent Deep Reinforcement Learning Approach</b>, ENERGY (Elsevier), vol. 292, 1 April 2024. [Q1, IF: 9.0]</li> <li>5. Shamyo Brotee, Farhan Kabir, Md. Abdur Razzaque, Palash Roy, Md. Mamun-Or-Rashid, Md. Rafiul Hassan, and MM. Hassan, <b>Optimizing UAV-UGV Coalition Operations: A Hybrid Clustering and Multi-Agent Reinforcement Learning Approach for Path Planning in Obstructed Environment</b>, Journal of Adhoc Networks (Elsevier), 15 April 2024, accepted for publication. [Q1, IF: 4.8]</li> <li>6. Sudip CG, MM Hossain, BC Das, Palash Roy, MA Razzaque, Saiful Azad, MM Hassan, Claudio Sabajio, G. Fortino, <b>“VESBELT: An Energy-Efficient and Low-Latency Aware Task Offloading in Maritime Internet-of-Things Networks Using Ensemble Neural Networks”</b>, Elsevier’s Journal of Future Generation Computer Systems, 29 July 2024 [Q1, IF: 6.2].</li> <li>7. Safiqul Islam, Mahadi Ahammed, N. A. Siddiquee, Palash Roy, M. A. Razzaque, <b>“QoE Aware Service Placement Scheme in Mobile Edge Computing Exploiting Hyper-Heuristic Approach”</b>, IEEE Access, accepted for publication, 16 May 2024. [Q1, IF 3.9]</li> <li>8. Abdur Razzak, Md. Tariqul Islam, Palash Roy, Md. Abdur Razzaque, MM Hassan, <b>Leveraging Deep Q-Learning to Maximize Consumer Quality of Experience in Smart Grid</b>, Energy (Elsevier), vol. 290, 1 March 2024. [Q1, IF 9.0]</li> <li>9. Nujhat Nawmi, F. Shanta, Palash Roy, M. Rashid, Sujan Sarker, MA Razzaque, MM Hassan, <b>“Task Execution Exploiting Grey Wolf Optimization in Collaborative Edge Computing”</b>, Journal of Cloud Computing, vol. 13, no. 23, Jan 2024. [Q1, IF 4.4]</li> <li>10. Zhang Wenhua, Mohammad Kamrul Hasan, Ahmad Fadzil Ismail, Zhang Yanke, Md Abdur Razzaque, Shayla Islam, Budati Anil Kumar, <b>“Data security in smart devices: Advancement, constraints and future recommendations”</b>, IET Networks, vol. 2, no. 6, November 2023. [Q1, IF 1.4]</li> <li>11. Saiful Azad, Mufti Mahmud, Kamal Z. Zamli, Sobhana Jahan, Shamim Kaiser, Md. Abdur Razzaque, <b>iBUST: An intelligent behavioral trust model for securing industrial cyber-physical systems</b>, Expert Systems with Applications (Elsevier), vol. 238, part B, 25 Sept 2023. [Q1, IF: 8.5]</li> <li>12. Syeda Nabila Akter, Afsana Kabir Sinthia, Palash Roy, Md. Abdur Razzaque, <b>“Reputation Aware Optimal Team Formation for Collaborative Software Crowdsourcing in Industry 5.0”</b>, Computers and Industrial Engineering (Elsevier), vol. 35, no. 8, September 2023. [Q1, IF 7.18]</li> <li>13. Pranjal K. Nandi, Md. Reajul Islam, Sujan Sarker, Palash Roy, Md. Abdur Razzaque, <b>“Task Offloading to Edge Cloud Balancing Utility and Cost for Energy</b></li> </ol>

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<b>COUNTRIES VISITED</b>	<ol style="list-style-type: none"> <li>1. <b>Abudhabi, Dubai, and Sharjah, United Arab Emirates</b>, Presented a research paper in DCOSS-IoT conference in Abu Dhabi and visited a few universities and iconic places in Dubai and Sharjah during April 29 to May 1, 2024.</li> <li>2. <b>Doha, Qatar</b>, Presented research papers in IEEE ISNCC 2023 during 23-26 Oct 2023 at Hamad Bin Khalifa University (HBKU), Doha Education City, and explored Qatar National Museum, Qatar National Convention Center, Pearl Qatar, Qatar Port Aquarium, etc.</li> <li>3. <b>Kuala Lumpur, Malaysia</b>, Family Tour to Tourist Places including Petronus Twin Tower, KL Tower, Putrajaya, Embassy of Bangladesh in KL, etc. during Jan 2018.</li> <li>4. <b>Singapore City, Singapore</b>, Family Tour to Tourist Places including Sentosa, Universal Studio, Birds Park, etc. during Jan 2018.</li> <li>5. <b>Stratford University, Falls Church, Virginia, United States of America</b>, as Visiting Professor during Jan-Mar 2017</li> <li>6. <b>Singapore City, Singapore</b>, Presenting research papers in IEEE TENCON 2016.</li> <li>7. <b>Jakarta, Indonesia, 2 – 11 Sep, 2015</b>, Got a full-funded fellowship from APNIC for a workshop on “Advanced Routing in the Internet” and APNIC 40 conference.</li> <li>8. <b>Strasbourg, France, 30 March 2015</b>, visited Strasbourg University.</li> <li>9. <b>Heidelberg, Germany, 28-29 March 2015</b>, visited European Molecular Biology Laboratory (EMBL).</li> <li>10. <b>Trieste, Italy, 15-27 March 2015</b>, Got a full-funded fellowship and attended a</li> </ol>
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	<p>workshop on “Internet of Things” in the Abdus Salam International Center for Theoretical Physics (ICTP).</p> <ol style="list-style-type: none"> <li>11. <b>Siem Reap, Cambodia, 9-12 Jan, 2014</b>, presented a research paper in 8<sup>th</sup> ACM IMCOM (ICUIMC).</li> <li>12. <b>Kathmundu, Nepal, 4-7 Jan, 2014, Keynote Speaker</b> on “Find for Me: An Smart Mobile Application in Bangladesh” in 14<sup>th</sup> CAN ICT Conference, Hotel Everest, Kathmundu.</li> <li>13. <b>Bali, Indonesia, 20-27 Oct, 2013</b>, Received ISIF Asia Award 2013 in the 8<sup>th</sup> Internet Governance Forum (IGF) 2013, held at Bali Nusa Dua Convention Center during 22-25 Oct 2013.</li> <li>14. <b>Seoul, South Korea, 3-8 Sep, 2013</b> (Attended Asia Pacific regional Internet Governance Forum, APriGF 2013), held at State University of New York, Songdo, Seoul, South Korea.</li> <li>15. <b>Stockholm, Sweden, 21-24 May, 2013</b> (Attended Stockholm Internet Forum (SIF) 2013)</li> <li>16. <b>Bangkok, Thailand, 27-30 January 2013</b>, (Presented a research paper in ICOIN 2013)</li> <li>17. <b>Kota Kinabalu, Malaysia, 18-21 February 2013</b>, (Presented a research paper in ACM ICUIMC 2013)</li> <li>18. <b>Republic of India, 19-30 January 2012</b> (Accompanied CSE DU 4<sup>th</sup> Year Hons. Students’ study tour, visited Kolkata, Agra, Delhi, and Shimla).</li> <li>19. <b>Kuala Lumpur, Malaysia, 20-23 February 2012</b> (Presented a research paper in ACM ICUIMC 2012, Sunway Lagoon Resort Hotel &amp; Spa, Bandar Sunway, Petaling Jaya)</li> <li>20. <b>Seattle, Washington, USA, 22-25 July 2009</b> (Presented a research paper in IEEE/IPSJ SAINT 2009, Hotel Hyatt Regency, Seattle.)</li> <li>21. <b>Okinawa Island, Japan, 25-30 March 2008</b> (Presented a research paper in IEEE AINA 2008, Okinawa Convention Center, Okinawa, Japan.)</li> <li>22. <b>Las Vegas, USA, 8-15 January 2008</b> (Presented a research paper in IEEE CCNC 2008, Las Vegas, Nevada, USA.)</li> <li>23. <b>Republic of India, 21-24 June 2006</b> (Participated a technical talk in Google Online India Ltd., Bangalore, the program was sponsored by Google, USA.)</li> <li>24. <b>Republic of Korea, 20 April 2006 to 26 January 2011</b> (Got admission with Korean Government’s IITA scholarship for PhD study in Kyung Hee University Global Campus of South Korea and later as a research professor)</li> <li>25. <b>United States of America, 7-14 April 2006</b> (Participated in the ACM ICPC (Advanced Computing Machinery-Inter Collegiate Programming Contest) World Final 2006 as coach of Dhaka University Programming Contest Team, Gryffindor, held in San Antonio, Texas, USA)</li> <li>26. <b>Australia, 28 May – 1 July 2000</b> (Participated in a 5-week intensive training on ‘Competency Based Teaching Methodology and Assessment Techniques’ arranged by Torrens Valley Institute of TAFE, Adelaide, South Australia.)</li> </ol>
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<b>PERMANENT ADDRESS</b>	Village: Diar Shahapur, P.O.: Diar Shahapur, P.S.: Ishurdi, District: Pabna, Bangladesh
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<b>REFERENCES</b>	<ol style="list-style-type: none"> <li>1. Prof. Choong Seon HONG, PhD School of Electronics and Information, Kyung Hee University 1 Seocheon, Giheung, Yongin, Gyeonggi 446-701 Korea Tel: +82 31 201 2532, Fax : +82 31 204 9082, Cell Phone: +82 16 409 4112 Email: <a href="mailto:cshong@khu.ac.kr">cshong@khu.ac.kr</a></li> <li>2. Prof. M. Lutfar Rahman, PhD Vice Chancellor, Daffodil International University Founding chairman (Ex), Dept. of Computer Science and Engg., University of Dhaka Professor Emeritus, Daffodil International University, Dhaka, Bangladesh Email: <a href="mailto:lrhman@daffodilvarsity.edu.bd">lrhman@daffodilvarsity.edu.bd</a> Phone: +8801819254885</li> </ol>
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|  | <p>3. Professor Golam Samdani Fakir, PhD<br/>Former Vice Chancellor<br/>Green University of Bangladesh, Dhaka, Bangladesh<br/>Phone: +8801755654976<br/>Email: <a href="mailto:samdani@green.edu.bd">samdani@green.edu.bd</a></p> <p>4. Prof. Hafiz Md. Hasan Babu, PhD<br/>Former Pro-Vice Chancellor, National University, Bangladesh.<br/>Dean, Faculty of Engineering and Technology (FoET)<br/>Professor, Department of Computer Science and Engineering<br/>University of Dhaka<br/>Phone: +8801712351055<br/>Email: <a href="mailto:hafizbabu@hotmail.com">hafizbabu@hotmail.com</a>, <a href="mailto:hafizbabu@du.ac.bd">hafizbabu@du.ac.bd</a></p> |
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I hereby declare that all information given herewith is accurate and up-to-date.

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(Md. Abdur Razzaque)