Curriculum Vitae

Dr. Md. Anwar Hossain
Professor
Department of Information and Communication Engineering (ICE)
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Pabna University of Science and Technology (PUST)
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1. Research Interest

» Machine Learning	» Image Processing and Analysis
» Deep Learning	» Computer Vision

2. Education

Ph.D. in ICE (2025)	**Doctor of Philosophy** from the Dept. of Information and Communication Engineering (ICE), Pabna University of Science and Technology (PUST), Bangladesh
	» Research Title: "Bangla Image Captioning using Attention-based CNN and Transformer Models "
M.Phil. in ICE (2020)	» **Master of Philosophy** from the Dept. of Information and Communication Engineering (ICE), Pabna University of Science and Technology (PUST), Bangladesh
	» Research Title: "Activity Identification from Natural Images using Deep CNN and RNN"
M.Sc. 2006 Thesis Group	» **Master of Science** from the Dept. of Information and Communication Engineering (ICE), University of Rajshahi, Bangladesh
	» Medium of Instruction: English
	» Master's Thesis: "Performance Evaluation of MPEG-4 Video Transmission over IP Networks"
	» Result: **GPA 3.95 out of 4.00**
B.Sc. 2005 (4 Year Honors)	» **Bachelor of Science (Hon's)** from the Dept. of Information and Communication Engineering (ICE), University of Rajshahi, Bangladesh
	» B.Sc. Project: "Simulation-Based Performance Analysis of TCP Tahoe, Reno, New Reno, Sack, and Vegas"
	» Medium of Instruction: English
	» Result: C**GPA 3.60 out of 4.00**

H.S.C. 2000	» Higher Secondary School Certificate from Shahid Bulbul Govt. College, Pabna.
	» Group**:** Science » Board**:** Rajshahi
	» Result**: First Division with 68.9% marks.**
S.S.C. 1998	» Secondary School Certificate from Raninagar Bil Gazna High School, Sujanagar, Pabna.
	» Group**:** Science » Board**:** Rajshahi
	» Result**: First Division with 81.4% marks**

3. Professional Experiences

08.06.2024 To Present	[1]	**Professor** Department of Information and Communication Engineering (ICE) Faculty of Engineering and Technology Pabna University of Science and Technology (PUST) Pabna, BANGLADESH.
22.12.2020 To 07.06.2024 (3 years, 5 months, 17 days)	[2]	**Associate Professor** Department of Information and Communication Engineering (ICE) Faculty of Engineering and Technology Pabna University of Science and Technology (PUST) Pabna, BANGLADESH.
28.09.2013 To 21.12.2020 (8 Years 2 Months 23 Days)	[3]	**Assistant Professor** Department of Information and Communication Engineering (ICE) Faculty of Engineering and Technology Pabna University of Science and Technology (PUST) Pabna, BANGLADESH.
16.01.2012 To 28.09.2013 (1 Year 8 Months 12 Days)	[4]	**Lecturer** Department of Information and Communication Engineering (ICE) Faculty of Engineering and Technology Pabna University of Science and Technology (PUST) Pabna, BANGLADESH.
05.08.2010 To 15.01.2012 (1 Year 5 Months 10 Days)	[5]	**Lecturer** Department of Information and Communication Technology (ICT) Faculty of Science Comilla University, Comilla, BANGLADESH.
17.07.2008 To 01.08.2010 (2 Years 15 Days)	[6]	**Assistant Programmer** Bangladesh Computer Council Ministry of Posts, Telecommunications and Information Technology, Government of Bangladesh (GOB).

4. Administrative and Other Experiences

21.07.2024 To Till now	[1]	**Chairman** Department of Information and Communication Engineering (ICE) Faculty of Engineering and Technology Pabna University of Science and Technology (PUST) Pabna-6600, BANGLADESH.
2020-2021, 2021-2022	[2]	**Technical Focal Point** GST Integrated Admission Systems
01.04.2017 To 31.10.2022 (5 Years 7 Months)	[3]	**Director** Information and Communication Technology Cell (ICT Cell) Pabna University of Science and Technology (PUST) Pabna-6600, BANGLADESH.
28.09.2013 To 27.09.2016 (3 Years)	[4]	**Chairman** Department of Information and Communication Engineering (ICE) Faculty of Engineering and Technology Pabna University of Science and Technology (PUST) Pabna-6600, BANGLADESH.
09.12.2014 To 31.12.2018 (4 Years 22 Days)	[5]	**Deputy Sub-Project Manager (DSPM)** Establishment of Campus Area Network (CAN) at PUST Pabna University of Science and Technology Pabna-6600, BANGLADESH.
2017-2018	[6]	**Coordinator, MICT Evening Program** Department of Information and Communication Engineering (ICE) Pabna University of Science and Technology (PUST) Pabna-6600, BANGLADESH.
2013-2014	[7]	**Joint Secretary, Teachers Association** Pabna University of Science and Technology (PUST) Pabna-6600, BANGLADESH.

5. Journal Articles

2025	[1]	Sajeeb Kumar Ray, Md. Anwar Hossain, Naima Islam, Mirza A.F.M. Rashidul Hasan, Enhanced plant health monitoring with dual head CNN for leaf classification and disease identification, Journal of Agriculture and Food Research, Volume 21, 2025, 101930, ISSN 2666-1543, https://doi.org/10.1016/j.jafr.2025.101930. (https://www.sciencedirect.com/science/article/pii/S2666154325003011)
2025	[2]	Ahasan Habib, A., Imtiaz, A., Tripura, D., Omar Faruk, M., Anwar Hossain, M., Ara, I., Sarker, S., & Zainul Abadin, A. (2025). Distributed denial-of-service attack detection short review: issues, challenges, and recommendations. Bulletin of Electrical Engineering and Informatics, 14(1), 438-446. doi: https://doi.org/10.11591/eei.v14i1.8377
2024	[3]	Md. Kawsar Ahmed, Md. Ariful Islam, Md. Asif Iqbal, and Md. Anwar Hossain. (2024). A Cross-Platform Vehicle Tracking System for Pabna University of Science and Technology with Android and Web Interfaces. International Journal of Imminent Science & Technology, ISSN: 3006-3116, 2(1). https://doi.org/10.70774/ijist.v2i2.22

2024	[4]	**Md. Anwar Hossain**, AFM Zainul Abadin, Md. Omar Faruk, Iffat Ara, Mirza AFM Rashidul Hasan, Nafiul Fatta, Md. Asraful, & Ebrahim Hossen. (2024). "Bangla handwritten word recognition using YOLO V5". Bulletin of Electrical Engineering and Informatics (BEEI), ISSN: 2089-3191, e-ISSN: 2302-9285, Vol. 13 No. 3, pp. 2175–2190. https://doi.org/10.11591/eei.v13i3.6953
2024	[5]	**Md. Anwar Hossain**, Sajeeb Kumar Ray, Naima Islam, Alamin Alamin, Mirza AFM Rashidul Hasan. (2024). "Enhanced human activity recognition through deep multi-layer perceptron on the UCI-HAR dataset", International Journal of Advances in Applied Sciences, p-ISSN 2252-8814, e-ISSN 2722-2594. Vol. 13, No. 2, pp. 429–438. https://doi.org/10.11591/ijaas.v13.i2.pp429-438
2023	[6]	**Md. Anwar Hossain**, Mirza AFM Rashidul Hasan, Ebrahim Hossen, Md Asraful, Md. Omar Faruk, AFM Zainul Abadin and Md. Suhag Ali. (2023). "Automatic Bangla Image Captioning Based on Transformer Model in Deep Learning" *International Journal of Advanced Computer Science and Applications (IJACSA)*, ISSN: 2156-5570 (Online), ISSN: 2158-107X (Print), Vol. 14, No. 11, pp. 1110-1117, 2023. http://dx.doi.org/10.14569/IJACSA.2023.01411113
2023	[7]	Md Asraful, **Md. Anwar Hossain** and Ebrahim Hossen. (2023) "Handwritten Bengali Alphabets, Compound Characters and Numerals Recognition Using a CNN-based Approach", *Annals of Emerging Technologies in Computing (AETiC),* Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 60-77, Vol. 7, No. 3, 1st July 2023, Published by International Association for Educators and Researchers (IAER), DOI: 10.33166/AETiC.2023.03.003, Available: https://aetic.theiaer.org/archive/v7/v7n3/p3.html
2022	[8]	**Md. Anwar Hossain**, Ebrahim Hossen, and Md. Asraful. (2022). "Study and prediction of covid-19 cases and vaccinations using machine learning in Bangladesh", *Aust. J. Eng. Innov. Technol.*, ISSN: 2663-7804 (Online) & 2663-7790 (Print), pp. 130-139, Vol. 4 No. 6, Published by Universe Publishing Group (UniversePG). https://doi.org/10.34104/ajeit.022.01300139
2022	[9]	Mst. Farzana Aktter, **Md. Anwar Hossain**, Sohag Sarker, AFM Zainul Abadin, and Mirza AFM Rashidul Hasan. (2022). "Performance Analysis of Deep Learning based Human Activity Recognition Methods", *Journal of Applied Science & Process Engineering*, Online ISSN: 2289-7771, Vol. *9, No.* 2, pp. 1197-1208, 31.10.2022, Published by UNIMAS. https://doi.org/10.33736/jaspe.4639.2022,
2022	[10]	Pal AK, Sumona S, Rashid MA, Mirza AFM Rashidul Hasan, Kumar M and **Md. Anwar Hossain** (2022). Students performance measurement and prediction based on academic features through the machine learning. *Aust. J. Eng. Innov. Technol.*, ISSN: 2663-7804 (Online), 2663-7790 (Print), Vol. 4, No**.** 4**,** pp. 65-77. Published by Universe Publishing Group (UniversePG). https://doi.org/10.34104/ajeit.022.065077
2022	[11]	**Md. Anwar Hossain**, Mirza AFM Rashidul Hasan, AFM Zainul Abadin, and Nafiul Fatta. (2022). "Bangla handwritten characters recognition using convolutional neural network", *Aust. J. Eng. Innov. Technol.*, ISSN: 2663-7804 (Online) & 2663-7790 (Print), 4(2), 27-31. https://doi.org/10.34104/ajeit.022.027031
2021	[12]	Md. Shahadat Hossain, **Md. Anwar Hossain**, AFM Zainul Abadin, & Md. Manik Ahmed. (2021). "Handwritten Bangla Numerical Digit Recognition Using Fine Regulated Deep Neural Network", *Engineering International*, ISSN: 2409-3629, Vol. 9, No. 2, pp. 73-84, 01.07.2021. https://doi.org/10.18034/ei.v9i2.551
2021	[13]	**Md. Anwar Hossain**, Mirza AFM Rashidul Hasan (2021.) "Activity Identification from Natural Images Using Deep CNN." In: Vasant P., Zelinka I., Weber GW. (eds) Intelligent Computing and Optimization. *Advances in Intelligent Systems and Computing*, vol 1324. Springer, Cham. https://doi.org/10.1007/978-3-030-68154-8_60
2021	[14]	Md. Husen Ali, Md. Sarwar Hosain, and **Md. Anwar Hossain.** (2021). "Big data analysis using bigquery on cloud computing platform", *Aust. J. Eng. Innov. Technol.*, ISSN: 2663-7804 (Online) & 2663-7790 (Print), 3(1), pp. 1-9. https://doi.org/10.34104/ajeit.021.0109

2021	[15]	**Md. Anwar Hossain**, AFM Zainul Abadin, Md. Manik Ahmed. (2021). "Brain Tumor Location Identification and Patient Observation from MRI Images", *Journal of Image Processing and Artificial Intelligence*, ISSN: 2581-3803 (Online), Vol. 7, No. 1, pp. 7-20, https://doi.org/10.46610/JOIPAI.2021.v07i01.002
2020	[16]	**Md. Anwar Hossain**, Md. Mohon Ali, Mst. Sharmin Akter, Md. Shahriar Alam Sajib (2020). "Performance Comparison of EIGRP, OSPF and RIP Routing Protocols using Cisco Packet Tracer and OPNET Simulator", Global Journal of Computer Science and Technology, Interdisciplinary, Volume 20(2), Year 30.03.2020; pp. 1-7; ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org/10.34257/GJCSTGVOL20IS2PG1
2019	[17]	Md. Manik Ahmed, **Md. Anwar Hossain**, AFM Zainul Abadin (2019). "Implementation of Back Propagation Neural Network with PCA for Face Recognition", Global Journal of Computer Science and Technology, Interdisciplinary, Volume 19(3), Year 07.08.2019, pp. 21-26, ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org/10.34257/GJCSTGVOL19IS3PG21
2019	[18]	**Md. Anwar Hossain**, Mahabuba Zannat. (2019). "Simulation and Design of University Area Network Scenario (UANS) using Cisco Packet Tracer", Global Journal of Computer Science and Technology, Interdisciplinary, Volume 19(3), Year 07.08.2019, pp. 7-11, ISSN (Online): 0975-4172 & ISSN (Print): 0975-4350. DOI: http://doi.org/10.34257/GJCSTGVOL19IS3PG7
2019	[19]	Moshammad Sharmin Akter, **Md. Anwar Hossain**. (2019). "Analysis and Comparative Study for Developing Computer Network in Terms of Routing Protocols Having IPv6 Network Using Cisco Packet Tracer", Software Engineering. Vol. 7(2), 2019, pp. 16-29. ISSN: 2376-8029 (Print), 2376-8037 (Online). DOI: http://doi.org/10.11648/j.se.20190702.11
2019	[20]	Md. Manik Ahmed, **Md. Anwar Hossain**, AFM Zainul Abadin. "Implementation and Performance Analysis of Different Hand Gesture Recognition Methods", Global Journal of Computer Science and Technology, Neural & AI, Volume 19(3), Year 17.07.2019, p. 13-20, ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org/10.34257/GJCSTDVOL19IS3PG13
2019	[21]	**Md. Anwar Hossain**, Sadia Afrin "Optical Character Recognition based on Template Matching", Global Journal of Computer Science and Technology, Software & Data Engineering, Volume 19(2), Year 21.05.2019; pp. 31-35; ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org//10.34257/GJCSTCVOL19IS2PG31
2019	[22]	**Md. Anwar Hossain**, Md. Mohon Ali. "Recognition of Handwritten Digit using Convolutional Neural Network (CNN)", Global Journal of Computer Science and Technology, Neural & AI, Volume 19(2), Year 18.05.2019; pp. 27-33; ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org/10.34257/GJCSTDVOL19IS2PG27
2019	[23]	**Md. Anwar Hossain**, Md. Shahriar Alam Sajib. "Classification of Image using Convolutional Neural Network (CNN)", Global Journal of Computer Science and Technology, Neural & AI, Volume 19(2), Year 18.05.2019, pp. 13-18; ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org/10.34257/GJCSTDVOL19IS2PG13
2019	[24]	**Md. Anwar Hossain**, Mst. Sharmin Akter. "Study and Optimized Simulation of OSPFv3 Routing Protocol in IPv6 Network", Global Journal of Computer Science and Technology Network, Web & Security, Volume 19(2), Year 23.03.2019; pp. 11-16; ISSN: 0975-4172 (Online), 0975-4350 (Print). DOI: http://doi.org/10.34257/GJCSTEVOL19IS2PG11
2019	[25]	Tarun Debnath, AFM Zainul Abadin, Md. **Anwar Hossain**. "PWM based Android Controlled Smart Wheelchair", International Journal of Computer Science & Information Technology (IJCSIT), Vol. 10(2), April 2018 pp. 57-64; ISSN (Online): 0975-3826 & ISSN (Print): 0975-4660. DOI: http://doi.org/10.5121/ijcsit.2018.10205
2018	[26]	Tarun Debnath, AFM Zainul Abadin, **Md. Anwar Hossain**. (2018). "Android Controlled Smart Wheelchair for Disabilities", Global Journal of Computer Science and Technology Network, Interdisciplinary, Volume 18(1), Year 11.04.2018, pp. 9-12; ISSN (Online): 0975-4172 & ISSN (Print): 0975-4350. DOI: http://doi.org/10.34257/GJCSTGVOL18IS1PG1

2015	[27]	**Md. Anwar Hossain**, AFM Zainul Abadin, "Downlink Scheduling in Long Term Evolution", International Journal of Engineering Research, Volume 4, Issue 6, pp.: 277-281, 01 June 2015, ISSN: 2319-6890) (online), 2347-5013 (print).
2014	[28]	Md. Shahadat Hossain, Md. Samiul Islam, AFM Zainul Abadin, **Md. Anwar Hossain**, "Methodology to Achieve Enhanced Data Transmission Rate using Li-Fi in VLC Technology" International Journal of Engineering Research, Volume No.3, Issue No.12, pp: 803-806, 01 Dec. 2014, ISSN:2319-6890)(online), 2347-5013(print).
2013	[29]	AFM Zainul Abadin, **Md. Anwar Hossain**, Muntasir Ahmed, Purno Mohon Ghosh. (2013). "Performance Analysis of TCP Tahoe, Reno, New Reno, Sack and Vegas using NS-2", Global Journal of Computer Science and Technology Network, Web & Security, Volume 13 Issue 16 Version 1.0, Year 2013; ISSN (Online): 0975-4172 & ISSN (Print): 0975-4350.
2013	[30]	AFM Zainul Abadin, **Md. Anwar Hossain**, Muntasir Ahmed, Purno Mohon Ghosh, "Performance Evaluation of a Spac Time Trellis Coded MIMO-OFDM Wireless Communication System", International Journal of Scientific Engineering and Technology, pp: 1229-1233, Volume No.2, Issue No.12, Dec. 2013; ISSN: 2277-1581.
2013	[31]	Muntasir Ahmed, Md. Anwar Hossain, AFM Zainul Abadin, Purno Mohon Ghosh, "Enhancing Transmission Capacity of a Cognitive Radio Network by Joint Spatial-Temporal Sensing with Cooperative Communication Strategy", Global Journal of Computer Science and Technology Network, Web & Security, Volume 13(2), Year 2013, ISSN (Online): 0975-4172 & ISSN (Print): 0975-4350.
2013	[32]	Muntasir Ahmed, Md. Anwar Hossain, AFM Zainul Abadin, Purno Mohon Ghosh. (2013). "BER Performance Evaluation of a Cooperative Wireless Communication System with CDMA Implementation of Fixed Relaying Protocols", Global Journal of Computer Science and Technology Network, Web & Security, Volume 13(1), Year 2013; ISSN (Online): 0975-4172 & ISSN (Print): 0975-4350.
2012	[33]	Purno Mohon Ghosh, Md. Anwar Hossain, A.F.M. Zainul Abadin, Kallol Krishna Karmakar. (2012). "Comparison Among Different Large Scale Path Loss Models for High Sites in Urban, Suburban and Rural Areas", International Journal of Soft Computing and Engineering (IJSCE), pp. 287-290, Volume-2, Issue-2, May 2012; ISSN (Online): 2231-2307.
2012	[34]	A.N.M. Bazlur Rashid, Md. Anwar Hossain. (2012) "Challenging Issues of Spatio-Temporal Data Mining", Journal of Computer Engineering and Intelligent Systems, pp. 55-63, Vol 3, No.4, 2012; ISSN (Paper): 2222-1719 & ISSN (Online): 2222-2863.
2012	[35]	Md. Anwar Hossain, A.N.M. Bazlur Rashid. (2012). "Performance Evaluation of MPEG-4 Video Transmission over IP-Networks: Best-Effort and Quality-of-Service", Journal of Computer Engineering and Intelligent Systems, pp. 66-77, Vol 3, No.3, 2012; ISSN (Paper): 2222-1719 & ISSN (Online): 2222-2863.

6. Conference Proceedings

2025	[1]	M. Rashed, M. B. Al Zabir Shammo, M. I. Hossain, **M. A. Hossain** and J. Habib, "A Machine Learning Framework for Stress Detection Using Photoplethysmography (PPG) Signals," 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 2025, pp. 1-5, doi: 10.1109/QPAIN66474.2025.11171913.
2025	[2]	N. T. Susmi, M. Chandra Chanda, M. S. Hosain, M. Rifat Hossen, **M. A. Hossain** and A. Fazal Mohammad Zainul Abadin, "Enhancing DeepFake Classification Performance Using a CNN and XceptionNet-Based Pipeline," 2025 IEEE 2nd International Conference

on Computing, Applications and Systems (COMPAS), Kushtia, Bangladesh, 2025, pp. 1-6, doi: 10.1109/COMPAS67506.2025.11381636.

| 2024 | [3] | N. Islam, S. K. Ray, **M. A. Hossain**, M. A. Rashidul Hasan, Alamin and M. B. Al Zabir Shammo, "Vehicle Classification and Detection Using YOLOv8: A Study on Highway Traffic Analysis," 2024 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), Rajshahi, Bangladesh, 2024, pp. 1-4, doi: 10.1109/ICRPSET64863.2024.10955913. |

2024 [4] Alamin, S. K. Ray, **M. A. Hossain**, M. A. R. Hasan, N. Islam and M. M. A. Hossain, "Embedded Systems-Based AC Device Controller," 2024 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), Rajshahi, Bangladesh, 2024, pp. 1-6, doi: 10.1109/ICRPSET64863.2024.10955881.

2024 [5] **M. A. Hossain**, M. A. R. Hasan, S. K. Ray and N. Islam, "Generating Bangla Image Captions with Deep Learning Techniques," 2024 6th International Conference on Sustainable Technologies for Industry 5.0 (STI), Narayanganj, Bangladesh, 2024, pp. 1-6, doi: 10.1109/STI64222.2024.10951094.

2020 [6] **Md. Anwar Hossain**, Mirza AFM Rashidul Hasan, "Activity Identification from Natural Images Using Deep CNN." Proceedings of the 3rd International Conference on Intelligent Computing and Optimization, ICO 2020, Hua Hin, Thailand, October 8-9, 2020.

2007 [7] **Md. Anwar Hossain**, Md. Azizur Rahman, "Simulation-Based Performance Analysis of TCP Tahoe, Reno, New Reno, Sack and Vegas using NS-2", National Conference on Electronics, Information and Telecommunication, 29-30 June 2007, Organized by Bangladesh Electronics Society (BES).

7. Published Book

2015 [1] **Md. Anwar Hossain**, "Information and Communication Technology", Bornomala Prokashoni, 01 June 2015, ISBN: 978-984-90216-1-2.

8. Awards and Achievements

2023 [1] Received National Science and Technology Fellowship for PhD research work provided by the Science and Technology Ministry, Government of Bangladesh.

2005 [2] Received Merit Scholarship for outstanding results in the B.Sc. (Honors) Examination 2005 from the University of Rajshahi, Bangladesh.

2005 [3] Received Hossain Shaheed Suhrawardy Hall Gold Medal for Outstanding result in the B.Sc. (Honors) Examination 2005 from the University of Rajshahi, Bangladesh.

9. Conferences Attended

2020 [1] Attended in "3rd International Conference on Intelligent Computing and Optimization", ICO 2020, Hua Hin, Thailand, October 8-9, 2020.

2008	[2]	Attended in "International Conference on Electronics, Computer and Communication (ICECC-2008)", Organized by the University of Rajshahi, Bangladesh.
2007	[3]	Attended in "National Conference on Electronics, Information and Telecommunication", 29-30 June 2007, Organized by Bangladesh Electronics Society (BES).

10. Training, Workshops, and Seminars

2018	[1]	Participated in the "Workshop-3 on Post Self-Assessment (SA) Improved Plan", 15th May 2018, Organized by ICE department, University of Rajshahi, Bangladesh.
2017	[2]	Participates in the International Seminar "Strategies for Sustainable R&E Networks", 30-31 Oct 2017, Organized by the University Grants Commission and HEQEP, Bangladesh.
2017	[3]	Participated in the "Campus Network Project Kick-off Workshop", 18th Sep 2017, Organized by the University Grants Commission and HEQEP, Bangladesh.
2017	[4]	Participated in the "Workshop on Integrated Library System: Koha and MARC 21", 6-9 Jan 2017, Organized by East West University Library, Dhaka Bangladesh.
2017	[5]	Participated in the Seminar on "Development of Intelligent Systems and Transformation of Thoughts into Research and Innovation", 30-31 Dec 2017, Organized by IICT, BUET.
2017	[6]	Participated in the "Workshop on 3D Printing Technology", 5th Oct 2017, Organized by the Department of Information and Communication Engineering, University of Rajshahi.
2009	[7]	Participated in the short training course on "Office Management", 17-19 Aug 2009, Organized by Bangladesh Computer Council (BCC), Dhaka, Bangladesh.
2009	[8]	Participated in the training program for Training of Trainers (TOT) on "Adult Learning (Andragogy), Managing Difficult Students, Active Learning and Web Strategies", Organized by Support for Development of Public Sector Use of ICT under EMTAP, BCC, Ministry of Science and ICT.

11. Undergraduate Thesis and Project Supervision

2022	[1]	B.Sc. (Engg.) Thesis: "Handwritten Character Recognition using Convolution Neural Network", Nasrin Akter, Roll: 170635, Year 2022.
2022	[2]	B.Sc. (Engg.) Thesis: "Bangla Handwritten Word Recognition using Neural Network", Nafiul Fatta, Roll: 170633, Year 2022.
2022	[3]	B.Sc. (Engg.) Thesis: "Deep Learning based Bangla Handwritten Character Recognition", Ariful Islam, Roll: 170632, Year 2022.
2022	[4]	B.Sc. (Engg.) Project: "Face News Detetion unisg Machine Learning", Arifa Rahman, Roll: 170623, Year 2022.
2021	[5]	B.Sc. (Engg.) Thesis: "Reduce Accidents by Detection Driver Drowsiness using Python", Zannatul Ferdous, Roll: 160637, Year 2021.

2021	[6]	B.Sc. (Engg.) Thesis: "Face Recognition based Security for Personal Voice Assistant using Python", H. M. Hasib Ferdous, Roll: 160634, Year 2021.
2021	[7]	B.Sc. (Engg.) Thesis: "Deep Learning based Automatic Bangla Image Caption Generator", Md. Asif Iqbal, Roll: 160627, Year 2021.
2021	[8]	B.Sc. (Engg.) Thesis: "Fake News Detection using Python", Mst. Asma Khatun, Roll: 160620, Year 2021.
2021	[9]	B.Sc. (Engg.) Thesis: "Image to Bengali Caption Generation using Neural Network", Sazzad Hossain, Roll: 160617, Year 2021.
2021	[10]	B.Sc. (Engg.) Thesis: "Face Mask Detection with Python, Keras, MobileNet and OpenCV", Shyamoli Akter, Roll: 160605, Year 2021.
2020	[11]	B.Sc. (Engg.) Thesis: "Study on Cyber Crime and Cyber Security in Bangladesh Perspective", Ishrat Zahan Raka, Roll: 150639, Year 2020.
2020	[12]	B.Sc. (Engg.) Project: "Online based Result Management System", M. M. Hussain, Roll: 150636, Year 2020.
2020	[13]	B.Sc. (Engg.) Project: "Online Admission Application System", Bilkis Ahmed, Roll: 150625, Year 2020.
2020	[14]	B.Sc. (Engg.) Project: "Android Application on Age, Electricity Bill, Distance and Area Measurement", Md. Shahadat Hossain Shiam, Roll: 150605, Year 2020.
2019	[15]	B.Sc. (Engg.) Thesis: "Optical Character Recognition based on Template Matching", Sadia Afrin, Roll: 140622, Year 2019.
2019	[16]	B.Sc. (Engg.) Thesis: "Classification of Image using Convolutional Neural Network (CNN)", Md. Shahriar Alom Sajib, Roll: 130639, Year 2019.
2019	[17]	B.Sc. (Engg.) Thesis: "Simulation and Design of University Area Network Scenario (UANS) Using Cisco Packet Tracer", Mahbuba Zannat, Roll: 140627, Year 2019.
2019	[18]	B.Sc. (Engg.) Thesis: "Recognition of Handwritten Digit using Convolutional Neural Network (CNN)", Md. Mohon Ali, Roll: 130622, Year 2019.
2019	[19]	B.Sc. (Engg.) Thesis: "Study and Optimized Simulation of OSPFv3 Routing Protocol in IPv6 Network", Mst. Sharmin Akter, Roll: 140639, Year 2019.
2018	[20]	B.Sc. (Engg.) Thesis: "Design and simulation of a Computer Network using RIP and OSPF Routing Protocol", Md. Shaiful Islam, Roll: 130643, Year 2018.
2018	[21]	B.Sc. (Engg.) Thesis: "Implementation and Simulation of Entity Authentication in 5g Wireless Communication", Mst. Farzana Akter, Roll: 130637, Year 2018.
2018	[22]	B.Sc. (Engg.) Project: "Android Game: Ready to Go", Dipak Kumar Ghosh, Roll: 130630, Year 2018.
2018	[23]	B.Sc. (Engg.) Thesis: "Implementation of OSPFv3 Routing Protocol in IPv6 Network Using Cisco Packet Tracer", Mst. Momotaj Islam, Roll: 130623, Year 2018.
2018	[24]	B.Sc. (Engg.) Thesis: "Comparisons Among different Interior Gateway Routing Protocols (RIPng, EIGRPv6, OSPFv3, IS-IS)", Md. Munnaf Hossen, Roll: 130614, Year 2018.
2017	[25]	B.Sc. (Engg.) Project: "ICE Programming Blog Site", Md. Anwarul Islam, Roll: 120641, Year 2017.
2017	[26]	B.Sc. (Engg.) Thesis: "A Study on Cloud Computing Technology and Its progress in Bangladesh", Md. Biddut Sarkar, Roll: 120631, Year 2017.
2017	[27]	B.Sc. (Engg.) Thesis: "Security System of Banking Computer Network using Cisco Devices", Md. Jahid Hossen, Roll: 120620, Year 2017.
2017	[28]	B.Sc. (Engg.) Thesis: "Performance Analysis of IPSec, PPTP, OpenVPN, Protocols on Virtual Private Network", Abdullah Al Noman, Roll: 120617, Year 2017.

2017	[29]	B.Sc. (Engg.) Thesis: "Performance Analysis of RIP, OSPF and EIGRP Routing protocol Using Packet Tracer and OPNET Simulator", Monayem Hossain, Roll: 120609, Year 2017.
2016	[30]	B.Sc. (Engg.) Thesis: "Network Design for a Company with Remote Branch Offices", Md. Zahidul Islam, Roll: 110632, Year 2016.
2016	[31]	B.Sc. (Engg.) Thesis: "Performance Analysis of Campus Area Network", Md. Momenul Islam, Roll: 110627, Year 2016.
2016	[32]	B.Sc. (Engg.) Thesis: "Paradigm Shift Towards Cloud Computing on Big Data", Md. Samiul Islam, Roll: 110624, Year 2016.
2016	[33]	B.Sc. (Engg.) Thesis: "A Comprehensive Study of Diagnosis Breast Cancer using Artificial Neural Network", Farhana Akter Ena, Roll: 110612, Year 2016.
2016	[34]	B.Sc. (Engg.) Thesis: "Network Design for a Corporate Office", Md. Khairul Islam, Roll: 110601, Year 2016.

12. Graduate Thesis Supervision

2024	[1]	M.Sc. (Engg.) Thesis: "Performance Analysis of Deep Learning based Human Activity Recognition", Farzana Akter, Roll: 19030601, Year: 2024
2021	[2]	M.Sc. (Engg.) Thesis: "Big Data Analysis using BigQuery on Cloud Computing Platform", Md. Husen Ali, Roll: 17010611, Year 2021.
2019	[3]	M.Sc. (Engg.) Thesis: "Handwritten Bangla Numerical Digit Recognition Using Fine Regulated Deep Neural Network", Md. Shahadat Hossain, Roll: 17010601, Year 2019.
2019	[4]	M.Sc. (Engg.) Thesis: "Implementation and Performance Analysis of Different Hand Gesture Recognition Methods", Md. Manik Ahmed, Roll: 17010613, Year 2019.

13. Conducted Courses

Sl.	Course No.	Title of The Courses Taught	Level	No. of Students (Approx.)	(Lectures/Week) or (H/W)	Year
1.	ICE-1103	Information Technology and Computer Fundamental	BSc(Engg.)	40	3	2012, 2014
2.	ICE-1104	Information Technology and Computer Fundamental Sessional	BSc(Engg.)			2014
3.	ICE-1105	Engineering Graphics	BSc(Engg.)	40	3	2012, 2013,
4.	ICE-1103	Fundamentals of ICT	BSc(Engg.)	40	3	2015, 2016, 2017, 2018
5.	ICE-1104	Fundamentals of ICT Sessional	BSc(Engg.)	40	3	2015, 2016, 2017, 2018
6.	ICE-1203	Programming with C	BSc(Engg.)	40	3	2012, 2013, 2015, 2016

Sl.	Course No.	Title of The Courses Taught	Level	No. of Students (Approx.)	(Lectures/Week) or (H/W)	Year
7.	ICE-1204	Programming with C Sessional	BSc(Engg.)	40	3	2012, 2013, 2015, 2016
8.	ICE-2101	Discrete Mathematics and Numerical Methods	BSc(Engg.)	40	3	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2024,
9.	ICE-2102	Discrete Mathematics and Numerical Methods Sessional	BSc(Engg.)	40	3	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2024
10.	ICE-2104	Analog Electronics-II	BSc(Engg.)	40	3	2012,
11.	ICE-2201	Data Structure and Algorithm	BSc(Engg.)	40	3	2012, 2013, 2016, 2017, 2018, 2019, 2024
12.	ICE-2202	Data Structure and Algorithm Sessional	BSc(Engg.)	40	3	2012, 2013, 2016, 2017, 2018, 2019, 2024
13.	ICE-3105	Network Programming with Java	BSc(Engg.)	40	3	2013
14.	ICE-3106	Network Programming with Java Sessional	BSc(Engg.)	40	3	2013
15.	ICE-3202	DBMS, Data Warehousing and Data Mining	BSc(Engg.)	40	3	2013
16.	ICE-3202	Database Management System	BSc(Engg.)	40	3	2017
17.	ICE-3203	Database Management System Sessional	BSc(Engg.)	40	3	2017
18.	ICE-3207	Digital Image and Speech Processing	BSc(Engg.)	40	3	2018, 2019
19.	ICE-3208	Digital Image and Speech Processing Sessional	BSc(Engg.)	40	3	2018, 2019
20.	ICE-4102	Computer Network and Data Communication	BSc(Engg.)	40	3	2014, 2015, 2016, 2017
21.	ICE-4103	Computer Network and Data Communication Sessional	BSc(Engg.)	40	3	2014, 2015, 2016, 2017
22.	ICE-4113	Management Information System	BSc(Engg.)	40	3	2019
23.	ICE-4202	Information System Analysis and Software Engineering	BSc(Engg.)	40	3	2014, 2015, 2016, 2024
24.	ICE-4203	Information System Analysis and Software Engineering Sessional	BSc(Engg.)	40	3	2014, 2015, 2016, 2024
25.	ICE-4208	Digital Signal Processing	BSc(Engg.)	40	3	2017
26.	ICE-4209	Digital Signal Processing Sessional	BSc(Engg.)	40	3	2017

Sl.	Course No.	Title of The Courses Taught	Level	No. of Students (Approx.)	(Lectures/Week) or (H/W)	Year
27.	ICE-6111	ICT Enabled Research Methodology	MSc(Engg.)	13	3	2017
28.	ICE-6206	Applied Cryptography	MSc(Engg.)	13	3	2017, 2018
29.	ICE-6504	Machine Learning	MSc(Engg.)	34	3	2019, 2021

14. Programming Skills

Programming Languages	» Python, MATLAB, C, C++, Prolog, Pascal, HTML, JavaScript, PHP, Visual Basic, Network Simulator-2, TCL, PERL, Assembly language.
Operating System	» MS-DOS, Windows Family, Linux
DBMS	» MySQL, SQL Server, Oracle, MS Access
Networking	» DNS Server, Web Server, FTP Server
Application Tools	» MS Word, Excel, PowerPoint, Adobe Photoshop, etc.

15. Languages Proficiency

Bangla	» Native Language
English	» Have a good command of speaking, listening, reading and writing. English was the instruction medium of the B.Sc. (Hon's) & M.Sc. program.

16. References

» **Professor Dr. Mirza AFM Rashidul Hasan**
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I hereby certify that the above information is true and correct to the best of my knowledge and belief.

(Prof. Dr. Md. Anwar Hossain)