

**CURRICULUM VITAE**  
**of**  
**DR. MD. MAHBUBAR RAHMAN**  
(ড. মোঃ মাহবুর রহমান)



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**Professor**  
Department of Electrical and Electronic  
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**Background Summary**

Dr. Md. Mahbubar Rahman: Currently a Professor of Electrical and Electronic Engineering at Islamic University, Kushtia, Bangladesh. Served as the Chairperson, Department of Applied Physics, Electronics and Communication Engineering, Islamic University, Kushtia from 2011 to 2014; as the Provost of Bangabandhu Sheikh Mujibur Rahman Hall from 2009 to 2011; as the Student Advisor from 2013 to 2014; and as the Proctor from 2014 to 2018. ***As a member of Islamic University Syndicate in the General Education Specialist capacity*** from 2018 to 2021. Served two terms as the Member of the executive body of Islamic University Teachers' Association, Two terms as the Member of the Executive body of Progressive Teacher's Association 'Shapla Forum' of Islamic University and Islamic University Bangabandhu Parishad. ***General Secretary of Islamic University progressive, pro-liberation and pro-Bangabandhu Teachers forum—“SHAPLA FORUM” from July, 1 2019 to Nov, 2021. Now Vice President of Bangabandhu Parishad teachers unit of Islamic University and General Secretary of—“SHAPLA FORUM” from Dec, 5 2022.***

While serving as the Provost of Bangabandhu Sheikh Mujibur Rahman Hall, established the ***Bangabandhu Mural and Bangabandhu Corner*** in the hall. As the Proctor, organized a number awareness building programmes and campaigns against drugs, terrorism and militancy in association with the local administration and law enforcing agencies. Kept the campus under constant surveillance through a network of close-circuit television and PTZ cameras. Have been appreciated by different people and organizations for taking a strong stance against the reactionary elements in the society and helping the University Administration in upholding the spirit of progressivism and development. Am a staunch supporter of humanism and the ideals of our great Liberation War 1971.

**Education**

***Doctor of Philosophy (Ph.D)*** in Applied Physics, Electronics and Communication Engineering. Islamic University, Kushtia, Bangladesh, (2009).

***Master of Science (by thesis)*** in Hydrogeology and Groundwater Management, University of Technology, Sydney, Australia, (2005)

***Master of Science (thesis group)*** in Applied Physics and Electronics. University of Rajshahi, Bangladesh, **Grade:** First class (1995).

***Bachelor of Science (B.Sc)*** in Applied Physics and Electronics, University of Rajshahi, Bangladesh, **Grade:**Upper 2<sup>nd</sup> class first (1994).

**H.S.C.** : Science, Cantt. Public School and College, Saidpur, Nilphamari.  
**Grade:** First Division (1991).

**S.S.C.** : Science, Khalisha Belpukur High School, Saidpur, Nilphamari  
**Grade:** First Division (1989).

**Specialization** : Applied Geophysics.

**Research interest** : Applied Geophysics, Environmental Science, Ground Water Modelling and Wireless Mobile Communication.

**Ph. D. Dissertation** : *Integrated Geophysical Study with Implementation of Mathematical Algorithms in The Greater Rangpur and Dinajpur Districts of Bangladesh.*

**Research Supervisor** : Professor Dr. Shaikh Enayet Ullah, Dept. of Applied Physics and Electronic Engineering, University of Rajshahi, Rajshahi.

**M.Sc Dissertation** : *A Statistical Analysis of Hydrograph Data for Estimating Recharge in The Lower Namoi Valley, NSW, Australia.*

**Research Supervisor** : Professor Dr. Bryce Kelly, University of Sydney, Australia.

### **Professional Experience**

**Professor (Feb., 2012 - Current):** Department of Electrical and Electronic Engineering, Islamic University, Kushtia

**Associate Professor (2007-2012):** Department of Applied Physics, Electronics and Communication Engineering, Islamic University, Kushtia.

**Assistant Professor (2002-2007):** Department of Electronics and Applied Physics, Islamic University, Kushtia

**Lecturer (1999-2002)** : Department of Electronics and Applied Physics, Islamic University, Kushtia.

**Personal:** Date of birth September 1, 1973, Bangladesh citizen.

### **Academic, Administrative and other Experiences**

**Expert member:** The Selection Board of Lecturers and Assistant Professors of Rajshahi University and Hajee Mohammad Danesh Science and Technology University

**Expert member:** The Selection Board of professors and associate professors of the Islamic University, Pabna University of Science and Technology, Barisal Science and Tech. Uni etc.

**Faculty Member** : Faculty of Applied Science and Technology, Islamic University, Kushtia.

**Faculty Member (2015-2017):** Faculty of Humanities and Social Sience, Islamic University, Kushtia.

**Faculty Member (Current)** : Faculty of Law & Faculty of Social Science, Islamic University.

**House tutor (2001-2002):** Bangamata Sheikh Fazilatunnesa Mujib Hall, Islamic University, Kushtia.

**House tutor (2007-2009)** : Jatir Pita Bangabandhu Sheikh Mujibur Rahman Hall, Islamic University, Kushtia.

**Provost (2009-2011)** : Jatir Pita Bangabandhu Sheikh Mujibur Rahman Hall, (Chair, Provost Council) Islamic University, Kushtia.

**Member, Tender Evaluation Committee2 (2009-2011):** Islamic University, Kushtia

**Chairman (2011-2014):** Department of Applied Physics, Electronics and Communication Engineering, Islamic University, Kushtia.

**Member, Academic Council** : Islamic University, Kushtia

**Member, Board of Advanced Studies:** Islamic University, Kushtia

**Member, Editorial Board (v.4)** : Journal of Applied Science and Technology, IU.

**Student Advisor (January, 2013 – April, 14):** Islamic University, Kushtia

**Proctor (April, 2014- Sep, 14):** Islamic University, Kushtia

**Proctor (October, 2015- Dec, 2018):** Islamic University, Kushtia

**Member, e-Tender Evaluation Committee (2018-21):** Islamic University, Kushtia

**Syndicate Member (Dec, 2018- Feb, 2021):** Islamic University, Kushtia

### **Organizational Involvements and Leadership Skills**

- *Now General Secretary of Islamic University progressive, pro-liberation and pro-Bangabandhu Teachers forum—“SHAPLA FORUM” from Dec, 5 2022*
- *Now Vice President of Bangabandhu Parishad teachers unit of Islamic University from 2021 (Current).*
- *General Secretary of the Executive body of Progressive Teacher’s Association ‘Shapla Forum’ of Islamic University from July, 1 2019 to Nov, 2021.*
- Member of the Executive body of Progressive Teacher’s Association ‘Shapla Forum’ of Islamic University from Feb, 2014 to 2019.
- Join Secretary of the Kushtia Islamic University Bangabandhu Parishad from 2015 to 2020.
- **Life Member of Bangladesh India Friendship Society.**
- Member of the Executive body of Islamic University Teachers’ Association from Jan, 2015 to Dec, 2016 and Jan, 2019 to Dec, 2019.
- Life Member of Bangladesh Physical Society, Bangladesh Electronic Society and Bangladesh Computer Society.

### **Additional Information**

***Bangabandhu Mural and Bangabandhu Corner:*** During the tenure of Provostship at the Jatir Pita Bangabandhu Sheikh Mujibur Rahman Hall of Islamic University, Kushtia, Challenging and highly life tredtend action has been taken on the stabilishment an attractive ***Bangabandhu Mural and Bangabandhu Corner*** to encurrage the next generation on The great leader and the father of Bengali nation of Bangabandhu Sheikh Mujibur Rahman and his activities.

***During Proctorship:*** As the Proctor, organized a number awareness building programmes and campaigns against drugs, terrorism and militancy in association with the local administration and law enforcing agencies. Kept the campus under constant surveillance through a network of close-circuit television and PTZ cameras. Have been appreciated by different people and organizations for taking a strong stance against the reactionary elements in the society and helping the University Administration in upholding the spirit of progressivism and development. Am a staunch supporter of humanism and the ideals of our great Liberation War 1971.

### **List of publications**

M A Hasan, M Shahinuzzaman, M M Rahman and M H Kabir, “A Cloud IoT platform to Implement an Environment Control and Monitoring System using Embedded Hardware” J. of Applied science and tech, Vol. 11, No. 02, 2022, pp19-26

J. J Sadique, S. E. Ullah, M. R. Islam, M. M. Rahman, A. Z. Kouzani and M. A. P Mahmud, “Gyre Precoding and T-Transformation-Based GFDM System for UAV-Aided mMTC Network” MDPI, Vol 10, Issue 23, 2021

M. A. Naher, M. O. Faruk, M. M. Rahman and S. E. Ullah, “Performance Evaluation of Encrypted Text Message Transmission in 5G Compatible Frequency-domain Subband Superposed Scheme Implemented MIMO OFDM Wireless Communication System”, Global J of Computer Science and Tech., 19(2), ver. 1, 16-27, 2019.

P. K. Nath, M. M. Rahman, S.M.A. Rahim, M. Khalid Hossain, M. Salim Reza and M.N.U. Khan, “Performance Analysis between Analog OFDM & Digital OFDM System”, I. J. Wireless and Microwave Technologies, 4, 84-100, 2016.

Joarder Jafor Sadique, Shaikh Enayet Ullah and Md. Mahbubar Rahman, “Impact of Variations Channel Coding Schemes on Performance Analysis of Subcarrier Intensity Modulated Free space Optical Communication System”, International Journal of Emerging Technology in computational and Applied Science(IJETCAS), Georgia, USA, 9(1), 56-60, 2014.

M. M. Rahman, S. E. Ullah, S. M. A. Rahim and M. J. Uddin, “Performance Evaluation of Alamouti Space-Time Block Coded Multi-User W-CDMA Wireless Communication System”, International Journal of Engineering and Computer Science, ISSN: 2319-7242, vol.2, 816-820, 2013.

Shaikh Enayet Ullah and Mahbubar Rahman, “BER Performance Analysis of a FEC Encoded Multi-user MIMO MCCDMA Wireless Communication System”, International Journal of Hybrid Information Technology, 4(3), 2011.

M. M. Rahman, S. E. Ullah, SMA Rahim and Md. Jasim Uddin, “Performance Evaluation of Alamouti space- Time Block Coded Multi-User W-CDMA Wireless Communication System”, International Journal of Engineering and Computer Science, 2(3), 2013.

M. D. Haque, S. E. Ullah, M. M. Rahman and M. Ahmed, “BER Performance Analysis of a Concatenated Low Density Parity Check Encoded OFDM Systm in AWGN and Fading Channels”, Journal of Scientific Research, JSR Publications. 2(1), 46-53, 2010.

DulalHaque, Shaikh Enayet Ullah, Mahbubar Rahman and A. F. M Zainul Abadin, “Performance Evaluation of a FEC Encoded MIMO-OFDM Wireless Communication System on Color Image Transmission”, Journal of Mobile Communication, 3(4), 62-67, 2009.

Md. Nur Amin, Md. Anamul Islam, Shaikh Enayet Ullah and Md. Mahbubar Rahman, “BER Simulation of a Reed- Solomon encoded Orthogonal Frequency Division Multiplexing Wireless Communication System”, Prime University Journal, 3(1), 2009. Md. Mahbubar Rahman and Shaikh Enayet Ullah, “Inversion of Gravity Data for Imaging of a Sediment-basement Interface: A Case Study in the Northwestern Part of Bangladesh”, Journal of Pure and Applied Geophysics, 166, 2007-2019, 2009.

Shaikh Enayet Ullah, M. M. Rahman, Md. Dulal Haque and M. Humayun Kabir, "Evaluation of a Differentially Encoded Minimum Shift Keying Based Wireless Communication System", Journal of Bangladesh Electronics, 9(1-2), 133-140, 09

Md. Rafiqul Islam, Md. Tanvir Hasan, M. Ruman Alam, M. Rukunuzzan and Md. Mahbubar Rahman, "Design and Implementation of PC-based high Performance Automatic Voltage Regulator", Journal of Applied Science and Technology, Islamic University, Kushtia-7003, 05(02), 53-59, 2008.

Shaikh Enayet Ullah, Md. Mahbubar Rahman and Md. Dulal Haque, "Performance Evaluation on Digital Image Transmission with Implementation of Quadrature Amplitude Modulation scheme in a Rician Fading Channel", Bangladesh Journal of Physics, 4, 67-74, 2007.

Shaikh Enayet Ullah, M. A. F. M. Rashidul Hasan M. Nozibul Haque and Md. Mahbubar Rahman, "Analysis of Short-Wavelength Magnetic Anomalies in Southern part of Bengal Foredeep Region of Bangladesh", Journal of Applied Science and Technology, Islamic University, Kushtia-7003, Bangladesh, 04(02), 2006

Shaikh Enayet Ullah, M. Nozibul Haque, Md. Mahbubar Rahman and M. A. F. M. Rashidul Hasan, "Analysis of Gravity Data for Detection of Geologic Boundary and Estimation of Depth of a Subsurface Structure in Rangpur Saddle Area of Bangladesh", Journal of Applied Science and Technology, Islamic University, Kushtia-7003, 04(02), 7-11, 2006.

Shaikh Enayet Ullah, M. Nozibul Haque, Md. Mahbubar Rahman and M. A. F. M. Rashidul Hasan, "Analysis of the Higher derivative of 3-D Analytic Signal of Magnetic anomalies in North-western part of Bangladesh", Journal of Applied Science and Technology, Islamic University, Kushtia-7003, Bangladesh, 04(02), 73-77, 2006.

M. Shahinuzzaman, M. Nozibul Haque and M. Mahbubar Rahman, "Groundwater Resource Evaluation in Khoksa Upazila, Kushtia", Journal of water resources research, Bangladesh University of Engineering & Technology, vol. 19 Dec, 2002.

M. Mahbubar Rahman, M. A. F. M. Rashidul Hasan, Mumnunul Keramat, S. Mustafizur Rahman and Shaikh Enayet Ullah, "Computer aided resistivity modelling and parameter estimation of subsurface formation", Journal of Bangladesh Academy of Sciences, Department of Chemistry, Dhaka University, Dhaka-1000, Bangladesh, 25(1), 35-43, 2001.

M. A. F. M. Rashidul Hasan, M. Keramat, S. Enayet Ullah, M. Nozibul Haque, and M. Mahbubar Rahman, "Assesement of groundwater potentiality in the north-east corner of Barind Tract, Bangladesh", The Bangladesh Journal of National Geographical Association, Department of Geography and environment, Dhaka University, Dhaka-1000, Bangladesh. 29(1&2), 43-55, 2001,

M. Jalal Uddin, M. Nozibul Haque and M. Mahbubar Rahman, "Simulation of lithologs to study the groundwater potentiality in Kumarkhali Upazila, Kushtia", Technical journal, river research institute, Faridpur, Bangladesh, 08(01), 2001.

M. Humayun Kabir, M. Mahbubar Rahman and M. Nozibul Haque, "Subsurface Geoelectric Parameters of the Eastern side of Rajshahi City", Journal of Applied Science and Technology, Islamic University, Kushtia-7003, 02(01), 87-92, 2001. Shaikh Enayet Ullah, Md. Mahbubar Rahman and M. A. F. M. Rashidul Hasan, "Interpretation of magnetic anomalies in north- west Bangladesh using spectrum based and analytical techniques", Bangladesh Journal of Scientific and Industrial Research, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh, 35(1-4), 82-89, 2000.

Shaikh Enayet Ullah, M. A. F. M. Rashidul Hasan and Md. Mahbubar Rahman, "Wave Number Domain Analysis of Aeromagnetic Map: A Case Study

in Southwest Bangladesh”, Journal of Applied Science and Technology, Islamic University, Kushtia-7003, Bangladesh, 01(01), 75-83, 2000.

Shaikh Enayet Ullah, M. A. F. M. Rashidul Hasan and Md. Mahbubar Rahman, “2<sup>1/2</sup>-D Modeling of Subsurface Geologic Features in Mount Olympus area of Cyprus”, Bangladesh Journal of Science Research, 18(2), 239-247, 2000.

### **References**

**1. Mr. Asaduzzaman Noor**

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Bangladesh Jatiya Sangsad

**2. Prof. Dr. M. Sayeedur Rahman Khan**

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