



**Md. Sarwar Hosain**  
Assistant Professor

Dept. of Information and Communication Engineering  
Pabna University of Science and Technology, Pabna-6600,  
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## CAREER SUMMARY

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- ✓ Experience in **Advanced Signal Processing and Wireless Channel Modeling** for 6+ years,
- ✓ Experience in **OFDM/MC-CDMA based wireless communication system** for 6+ years,
- ✓ Experience in **Cryptography and Network Security and Cyber Security** for 6+ years,
- ✓ University teaching experience in computer and web programming for 6+ years,
- ✓ Supervise/co-supervise undergraduate students (30) in their final research project/thesis.

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## ACADEMIC STATUS

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- **Master of Philosophy (M.Phil.) in Information and Communication Engineering (ICE)** 2019
  - ❖ **Institute:** Pabna University of Science and Technology, Pabna, Bangladesh.
  - ❖ **Thesis:** Performance Assessment of Layered Space Time Encoded SC-FDMA Wireless Communication System.
  - ❖ **Degree:** Conferred
- **M.Sc. in Information and Communication Engineering (ICE)** 2010
  - ❖ **Institute:** University of Rajshahi, Bangladesh.
  - ❖ **CGPA:** 3.86 out of 4.00
  - ❖ **Thesis:** Performance Analysis of Channel Equalization Techniques for MC-CDMA Wireless Communication System with Various Modulation Schemes.
- **B.Sc. in Information and Communication Engineering (ICE)** 2009
  - ❖ **Institute:** University of Rajshahi, Bangladesh.
  - ❖ **CGPA:** 3.79 out of 4.00
  - ❖ **Project:** Performance Evaluation of a Multi-user Orthogonal Frequency Division Multiplexing Access based 3GPP LTE wireless communication system.
  - ❖ **Award:** University Gold Medal.

## RESEARCH INTEREST

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- ❖ 5G/6G based Communication System
- ❖ NOMA
- ❖ Data Mining
- ❖ Cryptography and Network Security
- ❖ Data Security

## WORK EXPERIENCE

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➤ **Assistant Professor**

*Sep. 2015 to Continue*

*Dept. of Information and Communication Engineering*

*Pabna University of Science and Technology, Pabna-6600, Bangladesh.*

**Key Responsibilities:**

- ❖ Supervising Undergraduate Students.
- ❖ Managing Research Group of Students.
- ❖ Conducting Class, Seminar, and Workshop.
- ❖ Involving Different Administrative Works.

➤ **Lecturer**

*Sep. 2013 to Aug. 2015*

*Dept. of Information and Communication Engineering*

*Pabna University of Science and Technology, Pabna-6600, Bangladesh.*

**Key responsibilities in:**

- ❖ Managed Research Group of Students.
- ❖ Conducted Class, Seminar, and Workshop.
- ❖ Involved Different Administrative Works.

➤ **Lecturer**

*Mar. 2013 to Aug. 2013*

*Dept. of Electrical and Electronic Engineering*

*Hamdard University Bangladesh, Bangladesh.*

**Key responsibilities in:**

- ❖ Conducted Class, Seminar, and Workshop.
- ❖ Involved Different Administrative Works.

➤ **Lecturer**

*Jan. 2013 to Mar. 2013*

*Dept. of Electrical and Electronic Engineering*

*European University of Bangladesh, Dhaka, Bangladesh.*

**Key responsibilities in:**

- ❖ Conducted Class, Seminar.

## COMPUTER-BASED SKILLS

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- ❖ **Language:** MATLAB (skilled), C/C++ (good), Java (good), HTML(skilled), CSS(skilled), JavaScript(skilled), PHP(skilled).

- ❖ **Documentation:** Good in LaTeX and MS office (word, excel, power point).
- ❖ **Design:** MS Visio (fair), Auto CAD (fair), circuit vision/net vision (good),
- ❖ **Operating systems:** Windows up to 2010 (expert), Linux (fair),

## LANGUAGE PROFICIENCY

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➤ IELTS : Band 6.00

*Result: Sep 27, 2017*

## MAJOR RESEARCH PUBLICATION

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- J.Rahman, J.J.Sadique, **M.S.Hossain** and S.E.Ullah "[Secured Audio Signal Transmission in 5G Compatible mmWave Massive MIMO FBMC System with Implementation of Audio-to- Image Transformation Aided Encryption Scheme](#)" Global Journal of Computer Science and Technology: E Network, Web & Security, Vol.18 no.1 Year **2018**.
- T.Saha, **M. S. Hosain**, S. A. Istiaq, "[Performance Analysis of Encrypted Color Image in a D-BLAST Aided LDPC Encoded MC-CDMA Wireless Communication System](#)", Advances in Networks, 2016; 4(2):13-20 <http://www.sciencepublishinggroup.com/j/net> ,doi: 10.11648/j.net.20160402.11.
- L. C. Paul, **M. S. Hosain**, S. Sarker, M. H. Prio, M. Morshed, A. K. Sarkar, "[The Effect of Changing Substrate Material and Thickness on the Performance of Inset Feed Microstrip Patch Antenna](#)", American Journal of Networks and Communications (AJNC), Vol. 4, No. 3, Pp. 54-58, May 2015, doi: 10.11648/j.ajnc.20150403.16.
- **M. S. Hosain**, S. E. Ullah, R. Yasmin, " [Quality Assessment of Encrypted Color Image in a D-BLAST aided LDPC encoded SC-FDMA Wireless Communication System](#)", International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Vol. 12, No. 1, March-May, 2015, pp. 58-64.
- **M. S. Hosain**, S. E. Ullah, R. Yasmin, " [Performance analysis of D-BLAST aided Turbo Encoded SC-FDMA wireless communication system](#)", International Journal of Scientific & Engineering Research, Volume 5, Issue 7, Pp. 744-749, July-2014, ISSN 2229-5518, <http://www.ijser.org>.
- M. H. Kafi, **M. S. Hosain**, S. S. Islam, " [Impact of MGSTC BLAST spatial multiplexing scheme on performance assessment of MCCDMA wireless communication system](#)", International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Vol. 12, No. 1, March-May, 2015, pp. 08-14.
- **M. S. Hosain**, M. Haque, S. E. Ullah, " [Performance Assessment of Mimo Mccdma System on Video Signal Transmission with Implementation of Various Digital Signal Processing Techniques](#)", International Journal of Wireless Communications and Mobile Computing, Vol. 3, No. 2, 2015, pp. 18-26, Published online April 17, 2015. doi: 10.11648/j.wcmc.20150302.12
- **M. S. Hosain**, M. Z. Hasan, R. Yasmin, " [Impact of Iterative Channel Equalization Schemes on Text Message Transmission in a FEC Encoded Multi Carrier CDMA Wireless Communication System](#)", J. of Mobile Communication, ISSN: 1990-794X, Vol. 7, No. 2, pp. 12-16, 2013.