

## **Abu Sayed Md. Mostafizur Rahaman, PhD**

Department of Computer Science and Engineering  
Jahangirnagar University, Dhaka, Bangladesh

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<http://juniv.edu/teachers/asmmr>

### **Professional Summary**

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Expert Computer Science and Engineering professor with more than 15 years of experience teaching at the University level. Distinguished record of publication in academic journals all over the world. Commitment to helping university students develop their full potential in their studies. Strong philosophy of teaching and knowledge of many different methods to motivate students to develop their expertise in specific areas. A versatile person capable of merging innovative ideas, technology, knowledge and experience for positive contribution towards the system development in the rapidly changing scenario of Information technology

### **Skills**

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- Exemplary skills in reading, analysis, research, critical thinking, and writing, giving me the optimal tools to make further advances in the field.
- Strong oral communicator and lecturer in the classroom, and effective written communicator to students and other staff members.
- Excellent coaching, teaching, and motivational skills when working with individual students and encouraging them to work to their potential.
- Friendly and personable, making interactions with students and colleagues pleasant even when discussing ways students should improve.
- Solid ability to stay organized and on top of important deadlines when teaching a full load of classes each semester.

### **Technical skills**

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#### **Operating Systems**

- Microsoft Windows 98/2000/XP/Win 7/8/10
- Unix/Linux 7.0/7.2/7.3/9.0 Fedora core 6/12, Kali Linux

#### **Networking skills**

- Skilled in Linux and Windows networks also.

#### **Programming skills**

- Python, Django, Scikit-learn, PyTorch and OpenCV
- Experience in JAVA programming with Spring Boot Framework.
- C#, AngularJS, Javascript, ASP.net
- Skilled in C and C++ programming using gcc/g++ in Linux Platform and DOS also.
- Database programming using SQL/PLSQL.
- Assembly language, Visual Studio 2017
- Matlab programming

## Publications

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### Journal papers

22. **Traffic Modelling of Low Dense Femtocellular Network for LTE**  
Jesmin Akhter, **Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam, R Amin; *Journal of Computer and Communications*, Vol.7 No.12 December 2019
21. **Selection of Antenna Elements of AAS Based on Simulation of RWG Edge Elements**  
**Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam; *Jahangirnagar University Journal of Science*, vol. 40, no.2, pp.15-29, 2018
20. **Determination of Array Gain of Single Hop to Achieve the Performance of a 2-Hop Wireless Link**  
**Abu Sayed Md. Mostafizur Rahaman**, Jesmin Akhter, Md. Rafsan Jani, Md. Imdadul Islam, *Journal of Computer and Communications*, Vol.6 No.07 2018
19. **Comparison of SNR and SIR Based Fading Models in Determination of Normalized Channel Capacity of Cooperative Cognitive Radio Network**  
Md Abul Kalam Azad, **Abu Sayed Md Mostafizur Rahaman**, Md. Imdadul Islam, Jugal K. Das, *International Journal of Computer Science and Information Security*, Vol. 15 No. 3, pp. 56-61, MAR 2017
18. **Pattern Recognition Using the Concept of Disjoint Matrix of MIMO System**  
Md. Imdadul Islam, Rahmina Rubaiat, Md. Mezbahul Islam and **Abu Sayed Md. Mostafizur Rahaman**, *International Arab Journal of Information Technology (IAJIT)*, vol. 14, no. 4, July 2017
17. **Performance Analysis of CSMA/CA Network using Modified State Transition Chain**  
Dulal Chakraborty, Abul Kalam Azad, Md. Imdadul Islam and **Abu Sayed Md. Mostafizur Rahaman**, *Journal of Computer Science and Information Security*, Vol. 14 No. 12, pp. 1064-1070, DEC 2016
16. **Human Face Recognition Using Eigen Decomposition on ROI**  
Tania Khatun, Abul Kalam Azad, **ASM M Rahaman**, Md. Rafsan Jani and Md. Imdadul Islam; *International Journal of Computer Science and Information Security*, Vol. 14 No. 12, pp. 1071-1079, DEC 2016
15. **Impact of interferences on channel capacity of TLE mobile communication system**  
Dewan Md. M Rahman, **Abu Sayed Md Mostafizur Rahaman**, Md. Imdadul Islam, Mohammad Shorif Uddin and Md. Akram Hossain; *Turkish Journal of Electrical Engineering & Computer Sciences*. (Accepted)
14. **Performance Evaluation of Femtocell Based LTE Network under the Concept of Cross-layer Optimization**  
Jesmin Akhter, Md. Imdadul Islam, **ASM M Rahaman** and M R Amin; *International Journal of Computer Science and Information Security*, (pp. 52-60), vol. 14, no. 7, July 2016
13. **Traffic Modeling of Mobile Cellular Network Using Combination of Limited and Unlimited User Groups**  
Dewan Md. Mostafezur Rahman, **Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam, Mohammad Shorif Uddin and Md. Akram Hossain; *International Journal of Computer*

**12. Resource Management of Mobile Communication System**

Dewan Md. Mostafezur Rahman, Md. Imdadul Islam, **Abu Sayed Md. Mostafizur Rahaman**, Mohammad Shorif Uddin, Md. Akram Hossain; *International Journal of Advanced Engineering Research and Science (IJAERS)*", Vol-3, Issue-8, August 2016

**11. The MIMO Performance of LTE Network under Rayleigh Fading Environment**

Jesmin Akhter, Md. Imdadul Islam, **ASM M Rahaman**, M R Amin; *International Journal of Computer Science and Information Security, Vol. 14 No. 8, pp. 88-94, AUGUST 2016*

**10. Adaptive Beamforming and Cancellation of Jammer using Linear Array Antenna System**

Israt Jahan, Md. Imdadul Islam and **Abu Sayed Md. Mostafizur Rahaman**; *International Journal of Engineering Sciences & Research Technology, V-4, Issue 4, 648-657, April 2015*

**9. Traffic Modeling of Finite Queue and General Service Time Distribution**

Md. Imdadul Islam, Md. Zahirul Islam, **Abu Sayed Md. Mostafizur Rahaman**, Israt jahan, *Jahangirnagar University Journal of Science, V-38, No. 2, pp-23-34, 2015*

**8. Selection of the best two-hop AF wireless link under multiple antenna schemes over fading channel**

**Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam, M.R. Amin, *Journal of Information Processing System (JIPS), Volume: 11, No: 1, Page: 57 ~ 75, 2015, Republic of Korea.*

**7. Impact of Geometry and Feed Point on Radiation Pattern of a Patch Antenna and Its Linear Array as a Substitute of Multi-hop Link**

**Abu Sayed Md. Mostafizur Rahaman**, Jesmin Akhter, Md. Imdadul Islam, M.R. Amin, *Jahangirnagar University Journal of Electronics and Computer Science and Engineering, Vol. 15, pp. 7-15, June 2014, Bangladesh*

**6. Array Antenna System of Frequency Independent Antennas Based on RWG Elements**

**Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam, M.R. Amin, *Journal of Electronics and Computer Science Research, Vol. 2 No. 1, APRIL 2013*

**5. Application of Zero-Forcing Adaptive Equalization in Compensation of Fading Effect of Two-hop Wireless Link**

**Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam, M.R. Amin, *IACSIT International Journal of Engineering and Technology, pp. 628-633, Vol. 3, No. 6, Singapore, 2011*

**4. Performance Evaluation of Two-hop Wireless Link under Rayleigh and Nakagami-m Fading Channel for 8-PSK and 16-QAM**

**Abu Sayed Md. Mostafizur Rahaman**, Md. Imdadul Islam, M.R. Amin, *IACSIT International Journal of Engineering and Technology, Vol. 3, No.5, October 2011*

**3. Reliable Modulation method in PLC Communication for Home Network**

**Abu Sayed Md. Mostafizur Rahaman**, Akram Hossain, *Jahangirnagar University Journal of Science, v-28, December, 2005.*

**2. Justification of High Spectral Efficiency of VPSK Digital Modulation**

Md. Abdur Rahman, **Abu Sayed Md. Mostafizur Rahaman**, Abeda Sultana, Jesmin Akhter, *Journal of Mathematics and Mathematical Sciences*", v-19, p. 35-42, 2004.

**1. Bezier Curve as an Efficient Off-Line Path Planner**

Md. Abdur Rahman, **Abu Sayed Md. Mostafizur Rahaman**, Abeda Sultana, Jesmin Akhter, *Journal of Mathematics and Mathematical Sciences*", v-19, p. 63-72, 2004.

### Conference Papers

6. **Evaluation of N-Gram Based Multi-Layer Approach to Detect Malware in Android**  
Takia Islam, Sheikh Shah Mohammad Motiur Rahman and Md. Aumit Hasan, **Abu Sayed Md. Mostafizur Rahaman**, Md. Ismail Jabiullah, *Third International Conference on Computing and Network Communications (CoCoNet'19)*
5. **Parallel Commutation of Sparse Linear Systems on many core Processor**  
*Proc. 14th Int. Conf. on Computer and Information Technology, 2011*
4. **Genetic Programming: Novel Network Attacks Detection**  
*Proc. 8th Int. Conf. on Computer and Information Technology, pp. 722-727, 2005*
3. **Image Understanding for Human-Robot Symbiosis: Eye Tracking and Scene Interpretation**  
*Proc. 8th Int. Conf. on Computer and IT, pp. 261-265, 2005.*
2. **Lower Overhead Authentication Stream using Erasure Codes**  
*Proc. 8th Int. Conf. on Computer and Information Technology, pp. 1106-1111, 2005.*
1. **Simulation of Power Line Carrier Communication over Low Voltage Grid**  
*Proc. 6th Int. Conf. on Computer and Information Technology, 2003*

### Work History

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**Professor**

08/2017 to Current

**Jahangirnagar University- Dhaka Bangladesh**

- Developed and implemented curriculum using academic learning strategies and educational pedagogy
- Developed and implemented lesson plans that covered literature, writing and communication objectives for Undergraduate, Master's and MPhil/PhD classes
- Employed variety of teaching techniques to encourage student engagement and cater to diverse learning modalities
- Taught two undergraduate classes per semester in the area of programming/ networking
- Instructed students using lectures, discussions and demonstrations in programming/ networking and Embedded Systems
- Maintained regular office hours to help students with questions and provide educational support
- Identified student strengths and weaknesses to create tailored learning activities
- Tracked student assignments, attendance and test scores and entered into personal database to provide real-time progress monitoring

- Impartially evaluated papers, projects and homework assignments of students, delegating grading to teaching assistants when appropriate
- Evaluated and supervised students in Undergraduate, Master's and Mphil/PhD Level

**Associate Professor**

04/2013 to 07/2017

**Jahangirnagar University- Dhaka Bangladesh**

- Distributed course syllabus and responded to student questions and concerns regarding standards, material, grading and progression
- Selected appropriate support materials such as books and journals to meet student learning needs
- Taught 2 undergraduate classes per semester in programming and Computer Network
- Tracked student assignments, attendance and test scores and entered into online database to provide real-time progress monitoring
- Identified student strengths and weaknesses to create tailored learning activities
- Employed variety of teaching techniques to encourage student engagement and cater to diverse learning modalities
- Maintained regular office hours to help students with questions and provide educational support
- Supervised academic work of teachers and professors for compliance with quality standards for teaching.
- Recommended and administered appropriate solutions, sanctions, and discipline for non-compliance to rules and standards for student performance and behavior
- Facilitated group sessions and provided one-on-one support
- Developed program to work with students and increase interest in higher learning
- Improved student's analytical skills by introducing state-of-the-art computer program technologies
- Recommended training programs for technicians and engineers to further professional growth
- Collaborated with team of faculty to develop training program for students in need of extra help
- Met with students/parents to resolve conflicting educational priorities and issues
- Evaluated and supervised students in Undergraduate, Master's and Mphil/PhD Level

**Assistant Professor**

03/2010 to 03/2013

**Jahangirnagar University- Dhaka Bangladesh**

- Contributed to planning appropriate and engaging lessons for classroom learning applications
- Established research agenda in Wireless Communications/Security, programming, Computer network field to publish in peer-reviewed journals
- Supported weekly Programming/ Computer Network lab sessions, contributing to student engagement, comprehension and learning objectives
- Created materials and exercises to illustrate application of course concepts
- Took attendance, graded assignments and maintained student records to assist teachers with administrative tasks and maintain smooth daily operations
- Evaluated student progress through analysis of test scores and homework completion
- Arranged grooming session after university class for 1st year students to attract them in computer programming.
- Contributed to campus activities to promote positive university image

- Performed research to serve as basis for academic writing for publication
- Evaluated and supervised students in Undergraduate, Master's Level

**Lecturer**

10/2004 to 02/2010

**Jahangirnagar University- Dhaka Bangladesh**

- Set up computers and networking systems and delivered step-by-step instructions on basic use
- Prepared Lab manual for undergraduate students for different subjects
- Evaluated and supervised student project in Undergraduate level.
- Arranged grooming session after university class for 1<sup>st</sup> year students to attract them in computer programming.

**Lecturer**

**07/2003 to 09/2004**

- Daffodil Institute of IT- Dhaka Bangladesh
- Taught 3 undergraduate classes per semester in Programming and Computer Network, VLSI
- Contributed to campus activities to promote positive university image
- Evaluated and supervised student project in Undergraduate level

**Industrial Internship**

10/2008 to 03/2009

- Robert BOSCH GmbH- Leonberg, Stuttgart, Germany
- Conceptual Graph Implementation for Vehicle Environment System

**Student Assistant**

06/2007 to 09/2007

- Institute of Computer Architecture- University of Stuttgart Germany
- Programming for Hologram of Image

**Student Assistant**

10/2007 to 03/2008

- HLRS(High Performance Computing Center)- University of Stuttgart, Germany
- Web Service for collaborative program development using C#, SOAP and VS 2005

**Supervised Projects (Major)**

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- Expanding Internet access areas and financial planning for Network management of Jahangirnagar University in next few years.
- Development of outcome based academic curriculum for Department of Computer Science and Engineering, Jahangirnagar University
- Development of People Website of Jahangirnagar University
- Development Plan and Capacity building of students of the Department of Computer Science and Engineering, Jahangirnagar University.
- More than **Fourth academic different projects** has been supervised at undergraduate and Master's level

## Other Activities

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- Workshop (two-days long: 28-30 July 2018, ) on “Academic Database Management” organized by IQAC (Institutional Quality Assurance Cell), Jahangirnagar University (A part of world Bank Project).
- Organization: Rosetta Central School
  - Position: Secretary
  - Period: 2018- Present
- Organization: Rosetta (BD) Ltd.
  - Position: Managing Director
  - Period: 2018- Present
- Organization: Rosetta Housing Management Committee
  - Position: Vice President
  - Period: 2018- Present
- Organization: Jahangirnagar University Computer Science and Engineering Alumni Association (JUCSEAlumni)
  - Position: General Secretary
  - Period: 2016- 2021
- Organization: Jahangirnagar University Teacher Association (JUTA)
  - Position: Joint Secretary
  - Period: 2014-15
- Organization: Internet Management Center (IMC), Jahangirnagar University
  - Position: Additional Teacher In-Charge
  - Period: May'14-Dec 15
- Organization: Jahangirnagar University Clab
  - Position: Joint Secretary
  - Period: 2011-Present

## Education

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### **PhD in Computer Science and Engineering**

Jahangirnagar University, Dhaka, Bangladesh  
September, 2015

### **M.Sc. in Information Technology**

Major: Embedded System Engineering  
University of Stuttgart, Germany  
October, 2009

### **4-years B.Sc(Hons.) in Electronics and Computer Science**

Department of Electronics and Computer Science  
Jahangirnagar University, Dhaka, Bangladesh

### **Higher Secondary School Certificate (H.S.C)**

Govt. Science College, Dhaka, Bangladesh  
1996

### **Secondary School Certificate (S.S.C)**

Dinajpur Zilla School, Dinajpur, Bangladesh  
Marks Obtained: 84.8%  
1994

## Taught Courses in Master Level

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Management Information System  
Industrial Automation System  
Mobile and Wireless Communications  
Network Management  
Embedded System Engineering  
Computer Ethics and Cyber Law  
Digital Forensics

## Taught Courses in Bachelor Level

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Web Design and programming  
Web Engineering and Multimedia  
Linear Programming and Algorithms Analysis  
Operating Systems  
Computer Networks  
Digital System Design  
Computer Architecture  
Compiler Design  
Graph Theory  
VLSI design  
Digital Signal Processing

## Personal Details:

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Name : Abu Sayed Md. Mostafizur Rahaman  
Father's Name : Md. Nayeb Ali  
Mother's Name : Mrs. Shahara Ali  
Date of birth : 12 January 1980  
Place of birth : Dinajpur, Bangladsh  
Gender : Male  
Marital Status : Married  
Present Address : C-49, Jahangirnagar University Residential Area  
Jahangirnagar University  
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<http://juniv.edu/teachers/asmmr>

Sincerely,



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Dr. Abu Sayed Md. Mostafizur Rahaman