Resume of
Md. Asadujjaman

Assistant Professor
Department of Mathematics
University of Dhaka
Dhaka-1000, Bangladesh
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Personal Virtues .

To reach career excellence through dedication, sincerity, creativity, hard work and also seek continuous self-improvement with the changing institutional, internal and external needs.

Educational Qualification .

M. S. (Pure Mathematics) : **Thesis.**

Year of Exam	:	2010 (held in 2012).
Result	:	**GPA-3.97** out of 4.00 **[First position]**
Institution	:	University of Dhaka.

B. S. Honors (Mathematics) : **Project.**

Year of Exam	:	2009 (held in 2010).
Result	:	**CGPA-3.76** out of 4.00 (First CGPA System in DU).
Institution	:	University of Dhaka.

Higher Secondary Certificate : **Science.**

Year of Exam	:	2004.
Result	:	**GPA-4.80** out of 5.00.
Board	:	Dhaka.
Institution	:	B. N. College, Dhaka.

Secondary School Certificate : **Science.**

Year of Exam	:	2002.
Result	:	**GPA-4.25** (without 4^{th} sub.) out of 5.00.
Board	:	Dhaka.
Institution	:	Monipur High School.

Courses Studied in B.S. Programme .

- Fundamental of Mathematics
- **Computer Fundamentals**
- **FORTRAN Programming**
- Calculus-I,II
- Linear Algebra-I,II
- Statistics I
- Statistics I I
- Probability I, II
- Physics I, II
- Abstract Algebra
- Analytic and Vector Geometry
- Real Analysis-I,II
- Complex Analysis
- Ordinary Differential Equation-I,II
- Numerical Analysis-I,II
- Methods of Applied Mathematics-I,II
- Mechanics
- Linear Programming
- Introduction of Topology and Functional Analysis
- Differential Geometry
- Tensor Analysis
- Partial Differential Equation
- Theory of Numbers
- Nonlinear Programming
- Math Lab I, II, III, IV (Mathematica, FORTRAN, MatLab)

Courses Studied in M.S. Programme .

- Theory of Groups
- Theory of Rings and Modules
- Complex Function Theory
- Operations Research
- Dynamical Systems
- Riemannian Geometry

Teaching Experiences .

- University of Dhaka, **Assistant Professor**, Department of Mathematics.

  Duration: 14/06/2017 to present day.
- University of Dhaka, **Lecturer**, Department of Mathematics.

  Duration: 10/12/2013 to 13/06/2017.

- University of Asia Pacific, **Lecturer**, Department of Basic Sciences & Humanities.
  Duration: 20/03/2013 to 09/12/2013.

Research Experiences .

- Graduation Thesis Entitle: "**A Study of von Neumann Regular Rings & its Application**", Under the Supervision of Dr. Md. Tazibar Rahman, Professor, Department of Mathematics, Faculty of Science, University of Dhaka, Dhaka 1000, Bangladesh.
  Duration for this Research was 1(one) Year.

- Undergraduate Group Project Entitle: "**Linear Programming with Bounded Variables**", Under the Supervision of Sanwar Uddin Ahmad, Assistant Professor, Department of Mathematics, Faculty of Science, University of Dhaka, Dhaka 1000, Bangladesh.
  Duration for this Project was 1(one) Year.

Experience of Supervision .

M. S. Programme (Thesis):

2. [2017-2018], Thesis Entitle: Running, Number of Students: 02.

1. [2016-2017], Thesis Entitle: **"NEW APPROACHES TO SOLVE NON-LINEAR PROGRAMMING PROBLEMS WITH COMPUTER SOLUTION",**
Number of Students: 01.

B. S. Programme (Project):

6. [2018-2019], Running.
Number of Students: 10.

5. [2017-2018], Project Entitle: **"Dynamic Programming and its Applications"**
Number of Students: 04.

4. [2016-2017], Project Entitle: "**Linear Programming with Bounded Variables**", Number of Students: 04.

3. [2015-2016], Project Entitle: "**Transportation Problems and it's Applications**", Number of Students: 04.

2. [2014-2015], Project Entitle: "**Study on Algorithms for Integer Programming Problems**", Number of Students: 04.

1. [2013-2014], Project Entitle: "**Algorithms for Shortest-Route Problems**",
Number of Students: 04.

Training and Workshop .

3. Attended a day Long Workshop on "Fundamentals of IT & Advance IT Skill" on March 29, 2018, under the Centre of Excellence in Teaching & Learning (CoETL), University of Dhaka, Dhaka 1000, Bangladesh.

2. Attended a day Long Workshop on "Teaching, Learning and Assessment, Research Methods & Project Cycle" on March 20, 2018, under the Centre of Excellence in Teaching & Learning (CoETL), University of Dhaka, Dhaka 1000, Bangladesh.

1. Attended a Three day long training program on "Teaching, Learning & Assessment" from September 01 - 03, 2016, conducted under the auspices of sub-project CP-3233, HEQEP, Department of Physics, University of Dhaka, Dhaka 1000, Bangladesh.

Publications

1. **M. Asadujjaman and M. Babul Hasan**, A Proposed Technique for Solving Quasi-Concave Quadratic Programming Problems with Bounded Variables, The Dhaka University Journal of Science, Vol. 63(2): 117-123, 2015 (July), Faculty of Science, Dhaka University, Dhaka 1000, Bangladesh.

2. **M. Asadujjaman and M. Babul Hasan**, A Technique for Solving Quasi-Concave Quadratic Programming Problems with Bounded Variables by Objective Separable Method, The Dhaka University Journal of Science, Vol. 64(1), (January, 16), pp.51-58. Faculty of Science, Dhaka University, Dhaka 1000, Bangladesh.

3. **Md. Rajib Arefin and M. Asadujjaman,** Minimizing Average of Loss Functions using Gradient Descent and Stochastic Gradient Descent, The Dhaka University Journal of Science, Vol. 64(2), (July, 2016), pp.141-146. Faculty of Science, Dhaka University, Dhaka-1000, Bangladesh

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4. **Md. Mamun-Ur-Rashid Khan and Md. Asadujjaman**, A Tabu Search Approximation for finding the Shortest distance using Traveling Salesman Problem, IOSR Journal of Mathematics (IOSR-JM), e-ISSN: 2278-5728, p-ISSN: 2319-765X, Volume 12, Issue 5 Ver. V (Sep. - Oct.2016), PP 80-84, www.iosrjournals.org.

5. **M. Asadujjaman and Sharmin Alam**, Study of von Neumann Continuous Regular Rings, GUB Journal Of Science And Engineering, Volume 03, Issue 01, December 2017, GUBJSE: ISSN: 2409-0476, PP 55-62.

6. **Salma Nasrin, M. Asadujjaman, Jannatun Fardous,** Matrix Computations of Corwin-Greenleaf Multiplicity Functions for Symplectic Lie Groups, IOSR Journal of Mathematics (IOSR-JM), e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 13, Issue 6 Ver. IV (Nov. - Dec. 2017), PP 25-31, www.iosrjournals.org.

7. **Zahidul Islam Sohag, M. Asadujjaman**, A Proposed New Average Method for Solving Multi-Objective Linear Programming Problem Using Various Kinds of Mean Techniques, Mathematics Letters 2018, Science Publishing Group, ISSN: 2575-503X (Print); ISSN: 2575-5056 (Online), http://www.sciencepublishinggroup.com/j/ml.

8. **Zahidul Islam Sohag, Md. Asadujjaman**, A Proposed Method for Solving Quasi-Concave Quadratic Programming Problems by Multi-Objective Technique with Computer Algebra, IOSR Journal of Mathematics (IOSR-JM), e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 15, Issue 1 Ser. II (Jan – Feb 2019), PP 12-18, www.iosrjournals.org.

9. **Samsun Nahar, Shahina Naznin, Md. Asadujjaman, Dr. Md. Abdul Alim,** Solving Fuzzy Linear Programming Problem using Weighted Sum and Comparisons with Ranking Function, International Journal of Scientific & Engineering Research, Volume 8, Issue 10, October-2019, ISSN 2229-5518, PP 480-484, http://www.ijser.org.

Research Interest

- Algebra, Ring Theory, Group Theory, Complex Analysis, Theory of Number.
- Operations Research and Optimization, Dynamical System.

Teaching

Courses Undertaken

[Theory]

1. MTH 104: Linear Algebra I, Credit: 03, [Dept.: Mathematics]
2. MTM 203: Ordinary Differential Equations, Credit: 02, [Dept.: Physics]

[Lab]

1. MTH 150: Math Lab I, Mathematica, Credit: 03
2. MTH 350: Math Lab III, FORTRAN, Credit: 03

[Project]

1. MTH 490: Honours Project, Credit: 03, Number of Students: 10

[Thesis]

1. M. S. Thesis, Credit: 08, Number of Students: 02

Courses Taught

[Theory]

1. MTM 105: Calculus, Credit: 04, [Dept.: Geology, Applied Chemistry, Statistic (SBI), Physics]
2. MTH 104: Linear Algebra I, Credit: 03, [Dept.: Mathematics]
3. MTM 203: Ordinary Differential Equations, Credit: 02, [Dept.: Physics, Chemistry, Statistic (SBI)]
4. **OCN 216: Numerical Techniques in Oceanography, Credit: 03, [Dept.: Oceanography]**
5. Met-Th 512: Applicable Mathematics, Numerical Modeling Techniques and Numerical Weather Prediction, Credit: 03, [Dept.: **Meteorology**]

6. RME 2104: Multivariate and Vector Calculus, Credit: 03, [Dept.: **Robotics and Mechatronics Engineering**]
7. MATH 301: Multivariate and Vector Calculus, Credit: 03, [Dept.: Robotics and Mechatronics Engineering]
8. RME 2205: Differential Equations and Coordinate Geometry, Credit: 03, [Dept.: Robotics and Mechatronics Engineering]

[Lab]

1. MTH 150: Math Lab I, Mathematica, Credit: 03
2. MTH 250: Math Lab II, FORTRAN, Credit: 03
3. MTH 350: Math Lab III, FORTRAN, Credit: 03
4. MTH 450: Math Lab VI, MATLAB, Credit: 03
5. **OCN 217: Practical (Math Lab:** Mathematica, FORTRAN **), Credit: 02, [Dept.: Oceanography]**
6. Met-Th 512: Applicable Mathematics, Numerical Modeling Techniques and Numerical Weather Prediction, FORTRAN, Credit: 03, [Dept.: Meteorology]

[Project]

MTH 490: Honours Project, Credit: 03
6. [2018-2019], Running, Number of Students: 10.
5. [2017-2018], Project Entitle: "Dynamic Programming and its Applications", Number of Students: 04.
4. [2016-2017], Project Entitle: "Linear Programming with Bounded Variables", Number of Students: 04.
3. [2015-2016], Project Entitle: "Transportation Problems and it's Applications", Number of Students: 04.
2. [2014-2015], Project Entitle: "Study on Algorithms for Integer Programming Problems", Number of Students: 04.
1. [2013-2014], Project Entitle: "Algorithms for Shortest-Route Problems", Number of Students: 04.

[Thesis]

M. S. Thesis, Credit: 08
1. [2016-2017], Thesis Entitle: "NEW APPROACHES TO SOLVE NON-LINEAR PROGRAMMING PROBLEMS WITH COMPUTER SOLUTION", January 2019, Number of Students: 01.

Achievements .

- Gold Medalist, A F Mujibur Rahman Foundation Awards, 2013, For Excellence in Mathematics.
- Jowbeda Jofir Trust Found Scholarship, 2008, 2009, 2010. For Highest Marks obtained in Year Final Examination.

- EBL-DUAA Inspiration 2007, Eastern Bank Ltd and Dhaka University Alumni Association, Dhaka, Bangladesh.

Computer Proficiency

- Basic Knowledge : Computer Fundamental & Basic Concept of Computer.
- Office Course : MS Word, MS Excel, Power Point.
- Programming Language : MATHEMATICA, FORTRAN, MatLAB
- Internet : Browsing, Receive & send data.

Language Proficiency

- Bengali : Excellent, as mother tongue.
- English : Smart, as medium of education and overall communication.

Personal Aptitude

- Hobby : Reading books, Travelling and Meet New People and Exchange Opinion.
- Sports : Cricket, Football, Chess and Badminton.

Self Assessment

- Excellent in communicating.
- Able to correspondent independently.
- Able to set up priorities and routine tasks.
- Good in implementing and maintaining Office culture.
- Good in teams / personal coordination.

Co-curricular Activities

- Member of "Bangladesh Mathematical Society" of Dhaka University.
- Member of "Dhaka University Mathematics Alumni Association (DUMAA)".
- Member of "BADHAN" (a blood donor welfare organization).

Personal Information .

- Name : Md. Asadujjaman.
- Father's Name : (Late) Md. Abul Khair
- Mother's Name : Mst. Afruja Begum
- Date & Place of Birth : 1st November, 1987, Mirpur, Dhaka.
- Height : 5'-10".
- Complexion : Fair.
- Marital Status : Single.
- Blood Group : A (+ve).
- Religion : Islam.
- Present Address : 9/15, Pallabi, Mirpur, Dhaka-1216.

Office Address

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