

CURRICULUM VITAE

Name: Professor Mst. Kamrunnaher

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Date of Birth: 20 December, 1969

Current Mailing Address:

Professor

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Nationality: Bangladeshi

Sex: Female

Marital status: Married (Husband and three daughters)



Academic Qualification:

- 1991** Master of Science (M.Sc.) in Mathematics, University of Rajshahi (RU)
Rajshahi, Bangladesh Obtained 1st Class
- 1990** Bachelor of Science (Honours) in Mathematics, University of Rajshahi (RU,)
Rajshahi, Bangladesh Obtained 1st Class
- 1987** Higher Secondary Certificate (H.S.C), Jessore board, Bangladesh Obtained 1st Division
- 1985** Secondary School Certificate (S.S.C), Jessore board, Bangladesh Obtained 1st Division

Honours and Awards:

1. University Merit Scholarship Awarded merit Scholarship (01.07.1987~30.06.1990) at University of Rajshahi, Rajshahi 6205, Bangladesh, Awarded a merit scholarship on the basis of B. Sc. (Honours) results in 1990 from the University of Rajshahi 6205, Bangladesh.
2. Higher Secondary Certificate Board Scholarship Awarded Jessore Board Scholarship (01.07.1987~30.06.1990) on the basis of H.S.C. results in 1987 from the Board of Higher Secondary Certificate, Jessore, Bangladesh.
3. Secondary School Certificate Board Scholarship Awarded Jessore Board Scholarship (01.07.1985~30.06.1987) on the basis of H.S.C. results in 1985 from the Board of Secondary School Certificate result, Jessore, Bangladesh.

Academic Position:

1. **Professor** Islamic University (IU), Kushtia, Bangladesh, Serving as a Professor, Department of Mathematics, since December 07, 2018 upto date.
2. **Associate Professor** Islamic University (IU), Kushtia, Bangladesh, Serving as an Associate Professor, Department of Mathematics, since April 15, 2010 to October 06, 2018.
3. **Assistant Professor** Islamic University (IU), Kushtia, Bangladesh, Serving as an Associate Professor, Department of Mathematics, since October 11, 2004 to April 14, 2010.
4. **Assistant Professor** Islamic University (IU), Kushtia, Bangladesh, Serving as an Assistant Professor, Department of Computer Science and Engineering, since July 08,

- 1999 to October 10, 2004.
- 5.. **Lecturer** Islamic University (IU), Kushtia, Bangladesh, Serving as a Lecturer, Department of Computer Science and Engineering, since July 08, 1996 to July 07, 1999.
 6. **Chairman** Islamic University (IU), Kushtia, Bangladesh, Serving as a Chairperson/head of Department of Mathematics Chairman-Islamic University (IU), Kushtia, Bangladesh, since August 18, 2007 to 17 July 10, 2010.
 7. **Dean** Islamic University (IU), Kushtia, Bangladesh, Serving as a Dean, Faculty of Sciences, since November 14, 2022 to November 13, 2024
 8. **Syndicate member** Board of Syndicate Council, Islamic University, Kushtia 7003, Bangladesh since November 13, 2022 to 13 November 2024
 9. **Faculty Member** Faculty of Sciences, Islamic University (IU), Kushtia, Bangladesh, Serving as an Academic member for the development academic curriculum and other activities according to faculty ordinances for regulation all departments under this faculties since April 18, 2018 upto date.
 10. **Editorial Board Member** Member of Editorial Board, Journal of Islamic Education and Research Vol.7, No. 1, 2011, Islamic University, Kushtia 7003, Bangladesh.

Research Interest:

Water wave Mechanics, Fluid Mechanics, Hydrodynamics, Partial Differential Equation, Rheology

References

(a) Academic

1. **Professor M. Ashabul Hoque**
Professor & Chairman
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2. **Dr. Nasima Akhter**
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(b) Professional

1. **Dr. S. M. Mostafa Kamal**
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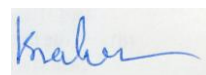
2. **Dr. Md. Asaduzzaman**
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asad@math.iu.ac.bd

Academic Job (Teaching and Research) in the Department of Mathematics

Academic degree	Level	Course Code	Course Title
Under Graduate student	1 st Year	MATH-1105	Analytical Geometry of 2D
Bachelor of Science (B.Sc. Hons)		MATH -1106 (Practical)	Algebra and trigonometry lab Using Fortran 77
	2 nd Year	MATH -2209	Analytical Geometry of 3D
	3 rd Year	MATH -3103	Numerical Analysis
		MATH -3104 (Practical)	Numerical Analysis La using C+++ language
	4 th Year	MATH -4203	Hydrodynamics
		MATH -4204 (Practical)	Hydrodynamics related project students supervise
Post Graduate student	5 th Year	MATH 5101	Water waves Mechanics
Masters of Science (M. Sc. Thesis and		MATH-5204 (Thesis work)	Water waves Mechanics related master's thesis students supervise

List of Publications:

1. M. Ashikur Rahman, M. Al-Amin, **Mst. Kamrunnaher**, M. Abul Kawsera, Rajaul Haque, M. Ali Akbar, M. Nurul Islam, Mathematical analysis of some new adequate broad-ranging soliton solutions of nonlinear models through the recent technique
Partial Differential Equations in Applied Mathematics 9, 10063, **2024**
<https://doi.org/10.1016/j.padiff.2024.100634>
2. **Mst. Kamrunnaher**, Md. Nur Hossain, and Md. Mozammel Hossain
Application of Leapfrog Scheme for Solving Linear Water wave problems
Journal of Applied Science and Technology, Vol. 13, No 1 & 2, 40-47, **2023**
3. **Mst. Kamrunnaher**, Md. Mozammel Hossain, and M. Mizanur Rahman
Mathematical Approach on Numerical Modeling of Water Waves
Journal of Applied Science and Technology, Vol. 12, No 1, 15-26, **2018**
4. M. Mizanur Rahman, M. Akher Chowdhury, **Mst. Kamrunnaher**, M. Asaduzzaman
The Finite Element Method for finding the Numerical Solutions of the two Dimensional Laplace Equation with Dirichlet Boundary conditions
Journal of Applied Science and Technology, Vol. 12, No 1, 1-5, **2018**
5. M. Mizanur Rahman, Atindrila Bagchi, **Mst. Kamrunnaher**
A comparative study of the Homotopy Perturbation, Variational Iteration and General Variational Iteration Methods for the Mathematical Pendulum
Journal of Applied Science and Technology, Vol. 12, No 1, 6-14, **2018**
6. M. Abul Kawser, Md. Mahafuzur Rahman, **Mst. Kamrunnaher**
Analytical Solutions of Fourth Order Critically Undamped Oscillatory Nonlinear Systems with Pair wise Equal Imaginary Eigen Values
Applied Mathematics, Scientific Academic Publication, 06 (3), 48-55, **2016**
7. **Mst. Kamrunnaher**, Md. Abdul Mohit, Md. Shariful Islm, and Md. Towhoiduzzaman Derivation of Continuity Equation and Its Applications
Journal of Applied Science and Technology, 09(1), 129-133, **2013**
8. Md. Abdul Mohit, **Mst. Kamrunnaher**, A. H. M. Rashedunnabi and Al-Amin
Tide Height Calculation in the Coastal Belt of Bangladesh by Using Nesting Surge Model, *Journal of Applied Science and Technology*, 09(1), 134-142, **2013**, ISSN 2218-841X
9. Azizur Rahman, **Mst. Kamrunnaher**, and M. A. Hoque
An Extension of Fuhrboter's Studies for Wave Height: A Theoretical Study
Journal of Bangladesh Academic of Sciences, 34(2), 115-122, **2010**
10. **Mst. Kamrunnaher**, and M. A. Hoque
The Influence of Surface Tension, Coriolis Force and Stratified Fluid on Internal Waves
Journal of Applied Science and Technology, 07(1), 111-117, **2010**
11. **Mst. Kamrunnaher**, M. A. Hoque, Md. Mizanur Rahman and S. M. Mostafa Kamal
A Preliminary Study on the Water Wave Formation and Their Anatomy
Journal of Applied Science and Technology, 05(02), 113-119, **2008**
12. S. M. Mostafa Kamal, Md. Mizanur Rahman, **Mst. Kamrunnaher**, and Md. Abdul Malek Monwar Hossain, The Computation of Pi (π) Throughout Ages: A Historical Approach
Journal of Applied Science and Technology, 03(02), 21-29, **2003**
13. S.M. Mostafa Kamal, **Mst. Kamrunnaher** and Dr.Md. Aynul Islam
The Demographic Components of Fertility Decline in Rural-Urban Areas of Bangladesh, A Decomposition Analysis, *Journal of Applied Science and Technology*, 03(02), 75-82, **2003**



Mst. Kamrunnaher
01.07.2026