

CURRICULUM VITAE

OF

MD. SHUZON ALI



OFFICE ADDRESS

Assistant Professor

Department of Mathematics

Bangabandhu Sheikh Mujibur Rahman Science & Technology

University, Gopalganj-8100, Bangladesh.

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1. ACADEMIC QUALIFICATIONS

M.Phil. (Masters of Philosophy):

University : University of Rajshahi, Rajshahi-6205, Bangladesh

Department : Mathematics

Master of Science (One Year M. Sc.): Thesis Group

University : University of Rajshahi, Bangladesh

Department : Applied Mathematics

Passing Year : 2009 (Examination held in 2010, due to session jam)

Result : **1st Class 1st in position (Faculty First in Science)** in order of merit
(GPA-4.00 out of 4.00 or 87.13%)

Thesis Title : Quantum Field Theory and Its Interaction with Static Sources

Major Studied Courses : Fluid Dynamics, Advanced Quantum Mechanics, Aerodynamics,
Meteorology, Magneto-hydrodynamics and Turbulence, Special Theory of
Relativity, General Relativity and Cosmology, Astrophysics, Population
Dynamics and non Linear Oscillation.

Medium of Instruction : **English**

Bachelor of Science (Four Years B. Sc. Honors)

University : University of Rajshahi, Bangladesh

Department : Applied Mathematics

Passing Year : 2010 (Examination held in 2011, due to session jam)

Result : **1st Class 2nd in position** in order of merit **(GPA-3.88 out of 4.00)**

Major Studied Courses : Algebra and Trigonometry; Calculus-I & II ; Set Theory and Matrix
Algebra, Two & Three Dimensional Geometry; Ordinary and Partial
Differential Equations; Real Analysis; Complex Analysis; Programming
with FORTRAN; Mathematical Methods; Mechanics; Hydrodynamics;
Linear Algebra; Vector & Tensor Analysis; Numerical Analysis;
Differential Geometry; Group Theory; Classical Mechanics; Operation
Research; Functional Analysis; Discrete Mathematics; Programming with
C; Astronomy; Elements of Quantum Mechanics.

Medium of Instruction : **English**

Higher Secondary Certificate (H.S.C)

College : Chuadanga Govt. College, Bangladesh
Group : Science
Passing Year : 2005
Result : G.P.A-4.40 / **1st Division**
Board : Jessore

Secondary School Certificate (S.S.C)

School : Damurhuda Pilot High School, Bangladesh
Group : Science
Passing Year : 2003
Result : G.P.A-4.31 / **1st Division**
Board : Jessore

2. CAREER OBJECTIVE

Looking for a research position in the field of Applied Mathematics, Mathematics and Civil Engineering where I will have the scope to utilize my potentiality, adaptability, and skills to do something innovative and from where, I will be able to enhance and share my knowledge in the field of Engineering and Applied Mathematics for the sake of mankind.

3. RESEARCH FIELD

- Geophysics (Modeling of Tsunami Propagation and Mitigation by Coastal Forest, M. Phil. Thesis)
- Quantum Mechanics (A Study on Quantum Field Theory and Its Interaction with Static Sources, M.Sc.Thesis)

4. RESEARCH INTEREST

- Water Waves Mechanics(Wave Height and Wave Setup in the Surf Zone)
- Geophysics and Meteorology(Climatic Change, Tsunami)
- Astrophysics and Relativity

5. TEACHING EXPERIENCES

I teach first, second, third, fourth and M.Sc. year regular courses of Mathematics at undergraduate level.

6. MAIN DUTIES & RESPONSIBILITIES

- Planning, developing and implementing a curriculum as approved by the Department of Mathematics.
- Teaching students based on mathematical principles in a manner i.e. within their ability to comprehend, assisting student learning, answering questions and working one to one with students during office hours.
- Preparing, administering and making student assignments and examinations.
- Advising students regarded course and academic matters.
- Supervising graduate students (M.Sc., B.Sc. Project).
- Analyzing and evaluating subject information to determine course requirements.

7. RESEARCH EXPERIENCES

Completed one year research works entitled with “**Quantum Field Theory and Its Interaction with Static Sources.**” and submitted a dissertation in partial fulfillment of the requirements for the degree of M. Sc. to the Department of Applied Mathematics, University of Rajshahi, Rajshahi-6205, Bangladesh. Also now admitted as a M. Phil. Research student works entitled with “**Modeling of Tsunami Propagation and Mitigation by Coastal Forest.**” to complete my higher study of the Department of Mathematics, University of Rajshahi, Rajshahi-6205, Bangladesh.

8. RESEARCH PAPERS

1.	M.M.RAHMAN, M.S.ALI and A.A.MOHIT, 2014. Determination of Wave Height and Wave Setup in the Surf Zone (Void Fraction Profiles Varies Exponentially) . (<i>IJITR</i>) <i>INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND RESEARCH</i> Volume No.2, Issue No. 4, June – July 2014, 1085 – 1088.
2.	Ashabul Hoque ¹ ; Nur Hossain ¹ ; Shuzon Ali ² ; Masudar Rahman ³ , 2016. Wave breaking and bubble formation associate energy dissipation and wave set up (Void Fraction Profiles Varies Linearly) .(submitted). (<i>EVM</i>) <i>JOURNAL OF ENVIRONMENTAL FLUID MECHANICS</i> , IMPACT FACTOR- 1.61.

9. Other RESEARCH PAPERS

1.	.M.S.Ali ¹ , R.R.Mondal ^{1*} , M.A.A.Mamun ² , M.M. Rahman ³ 2018. Numerical Runge- Kutta (4, 4) Method to determine the Initial Configurations of the Jupitar Protoplanet formed via Disk Instability. (To be submitted).
2.	M.S.Ali [*] , M.M.Rahman ^{**} , M.A.A.Mamun ^{**} 2017. A Discussion and Comparison between Circular and Schroedinger Waves . (<i>IJSRP</i>) International Journal of Scientific and Research Publication, Volume 7, Issue 2, February 2017, ISSN 2250-3153.
3.	S.M.Rayhanul Islam, M. Shuzon Ali , M. Shaiful Islam and Kamruzzaman Khan, 2015. Traveling Wave Solutions for the Foam Drainage Equation and the Enhanced (G'/G) - Expansion Method . International Journal of Scientific Engineering and Technology, Volume No.4, Issue No.8, 01 August, 2015, pp-426-431, ISSN-2277-1581.

10. COURSE Taught in B.Sc. (Hons) & M.Sc. DEGREE

Course Taken:

M. Sc.: The Special Theory of Relativity, General Theory of Relativity and Cosmology, Steller Astrophysics, Advanced Quantum Mechanics etc.

B. Sc.: Elements of quantum mechanics (4th Year), Integral Equations (4th Year), Classical Mechanics (3rd Year), Complex Analysis (3rd Year), Mathematical Methods (3rd year), Vector & Tensor Analysis (2nd Year), Fourier and Laplace Transformation (2nd Year), Linear Algebra (2nd Year), Ordinary and Partial Differential Equations (2nd Year), Differential & Integral Calculus (1st Year), Set Theory and Matrix Analysis (1st Year) etc.

11. PROFESSIONAL SERVICES and EXPERIENCES

Periods	Positions and Affiliations	Main Duties and Responsibilities
20 th April, 2014-19 th April, 2016	Lecturer, Department of Mathematics, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh.	Teaching and Research (Described in 5).
18 th June, 2016-till to date	Assistant Professor, Department of Mathematics, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh.	Teaching and Research (Described in 5).
25 th July, 2016-till to date	Assistant Provost, Bijoy Dibash Hall, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh.	Teaching and Research (Described in 5).

12. COMPUTER SKILLS

- Microsoft Office
- Programming with FORTRAN, C, C++
- MATLAB and Maple.

13. LANGUAGE SKILLS

- Bengali (Mother Tongue)
- English (Fluent)

14. ACADEMIC AWARDS

2011	A. F. Mujibur Rahman Foundation Gold Medal Award and Talent Scholarship with Certificate for first class first in position in M. Sc. (Thesis Group) Examination in Applied Mathematics Department.
2010	Rajshahi University Agrani Bank Gold Medal Award and Certificate for (M.Sc. Faculty First in Science).
2009	Shaheed Ziaur Rahman Hall Gold Medal Award and Certificate for first class second in position in B. Sc. (Hon's) Examination in Applied Mathematics Department.
2009	Rajshahi University Talent Scholarship for first class second in position in B. Sc. (Hon's) Examination in Applied Mathematics Department.

15. PERSONAL DETAILS

Name : Md. Shuzon Ali
Father's Name : Md. Azizul Haque
Mother's Name : Mst. Sufia Khatun
Permanent Address : Village : Chitla, Post Office : Damurhuda-7200
Police Station: Damurhuda, District: Chuadanga, Bangladesh.
Mailing Address : **Assistant Professor**, Department of Mathematics
Bangabandhu Sheikh Mujibur Rahman Science and Technology
University, Gopalganj-8100, Bangladesh.
Date and Country of Birth : 20th October, 1986, Bangladesh
Nationality : Bangladeshi
Marital Status : Married
Sex : Male
Religion : Muslim
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16. OTHERS

Complete the course of **IELTS** from Mentors coaching centre.

17. REFERENCES

1. Dr. Syed Mustafizur Rahman (M.Phil. Supervisor)
Professor
Department of App. Physics and Electronics Engg.
University of Rajshahi
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2. Dr. Md. Ashabul Haque (M. Phil. Co-Supervisor)
Professor
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3. Dr. Md. Hossain Ali (M. Sc. Supervisor)
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18. SIGNATURE



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(Md. Shuzon Ali)