



Name: Dr. Md. Ayub Ali
Designation: Professor
Qualification: B.Sc. (Hons), M. Sc. (DU), Ph. D
Research Interest: Lattice Theory, Operation Research
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Personal Contact:
Department of Mathematics
Jagannath University
Dhaka-1100

Nationality: Bangladeshi

Date of Birth: 11/12/1966

Academic Experiences:

(Position, Department & University, Period (DD-MM-YY))

Professor, Department of Mathematics, Jagannath University, Dhaka, Bangladesh, 17.07.2014 onwards.

Associate Professor, Department of Mathematics, Jagannath University, Dhaka, Bangladesh, 01.07.2010 to 16.07.2014.

Assistant Professor, Department of Mathematics, Gaibanda Govt. College, Gaibanda, Bangladesh, 20.06.2004 to 31.01.2005.

Assistant Professor, Department of Mathematics, Govt. Titumir College, Dhaka, Bangladesh, 06.02.2005 to 30.06.2010.

Lecturer, Department of Mathematics, Kustia Govt. College, Kustia, Bangladesh, 14.11.1993 to 29.01.1994.

Lecturer, Department of Mathematics Govt. Chiora College, Comilla, Bangladesh, 01.02.1994 to 01.08.1994.

Lecturer, Department of Mathematics, Rajshahi college, Rajshahi, Bangladesh, 13.08.1994 to 19.06.2005.

Total Teaching Experience: 23 years 04 months.

- i) Jagannath University: 9 years 1 month (Approximate)
- ii) Honours & Masters level Government college: 16 years 7 month (Approximate)

Administrative Experience:

1. Chairman, Department of Mathematics, Jagannath University, Dhaka, Bangladesh, 20.03.2012 to 19.03.2015.

2. Member of Academic Council, Jagannath University: From 20. 03. 2012 onwards.

3. Member of Board Advanced Studies. Jagannath University, From 17.07.2014 onwards.

Academic Qualification:

B. Sc. Hon's (1987) & M. Sc. (1988), University of Dhaka, Dip-in-Ed (1993), University of Dhaka, Ph. D. (2000), University of Rajshahi, S. S. C. (1982) & H. S. C. (1984), Dhaka Board.

Language Proficiency:

Bengali is my mother tongue

English

Teaching Area:

Geometry, Algebra, Calculus, Linear Algebra, Abstract Algebra, Real Analysis, Complex Analysis, Numerical Analysis, Theory of Numbers, Tensor Analysis, Differential Geometry, Mathematical Modeling in Biology, Discrete Mathematics, Actuarial Mathematics, Differential and Integral Equations, Operation Research, Lattice theory and Boolean Algebra.

Research Interest: Lattice Theory & Boolean Algebra, Differential & Integral Equations, Operation Research.

Member of Learned Society:

1. Life member of **Bangladesh Mathematical Society**, University of Dhaka, Dhaka, Bangladesh.
2. Life member of **Calcutta Mathematical Society**, Calcutta, West Bengal, India.

Member of Selection Board:

1. **Teacher Recruitment:** Department of Mathematics, Jagannath University, From 20.03.2012 to 19.03.2015.
2. **Teacher Recruitment:** Private Colleges Under National University, From the year 2000 onwards.

Training & Workshop:

1. **38th Foundation Training Course:** 24.02.1996 to 25.04.1996, Ministry of Education. (NAEM).
2. **Training on Mat Lab:** 07.12.2000 to 20.12.2000, Department of Mathematics, University of Dhaka.
3. **Computer application Course:** 17.08 2004 to 26.08.2004, Ministry of Education. (NAEM).

Persons who have completed M. Sc. Thesis under my supervision:

- | | |
|-----------------------|--|
| 1. Sumon Chacrabarty, | Govt. Titumir College, Under National University, 2004 |
| 2. Abdullah Al-Mamun, | Govt. Titumir College, Under National University, 2004 |
| 3. Md. Fakrul Islam, | Govt. Titumir College, Under National University, 2004 |
| 4. Md. Abdul Awal, | Govt. Titumir College Under National University, 2004 |
| 5. Razia Sultana, | Govt. Titumir College, Under National University, 2008 |
| 6. Mahumuda Akhter, | Jagannath University, Dhaka, 2009 |
| 7. Vaghasree Mondal, | Jagannath University, Dhaka, 2009 |
| 8. Azmeri Morshed | Jagannath University, Dhaka 2011 |
| 9. Nurun Naher | Jagannath University, Dhaka 2014 |
| 10. Masrur Jahan | Jagannath University, Dhaka 2015 |
| 11. Israt Jahan | Jagannath University, Dhaka 2015 |
| 12. Md. Riaz Hossain | Jagannath University, Dhaka 2016 |
| 13. Pramod Mazumder | Jagannath University, Dhaka 2017 |

Ph. D. researcher under my supervision:

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|----------------------|------------------------------|------|
| 1. Sompa Rani Podder | Jagannath University, Dhaka, | 2015 |
| 2. Md.Habibur Rahman | Jagannath University, Dhaka, | 2017 |

M. Phill researcher under my supervision:

- | | | |
|---------------------|------------------------------|------|
| 1 Debosree Mondal | Jagannath University, Dhaka, | 2012 |
| 2. Pervin Akter | Jagannath University, Dhaka, | 2016 |
| 3. Md. Saidul Islam | Jagannath University, Dhaka, | 2018 |
| 4. Md. Eakub Ali | Jagannath University, Dhaka, | 2019 |

List of Publications:

(i) Books:

1. Lattice Theory; A text book for M. Sc. (Final year) students of all general Universities of Bangladesh.
2. Discrete Mathematics; A text book for B. Sc. Honours (4th year) students of all general Universities of Bangladesh.
3. Madhmic Ganit, A text book for S S C students of Open University of Bangladesh.
4. Higher Mathematics, A text book for S S C students of Open University of Bangladesh.

(ii) Journal Papers:

1. A. S. A. Noor & **Md. Ayub Ali**; Minimal prime n -ideals of a lattice; North Bengal University Review, India, Vol-9, Page: 30-36 (1998).
2. A. S. A. Noor & **Md. Ayub Ali**; Lattices whose finitely generated n -ideals form a Stone lattice; Rajshahi University studies, Part-B, Vol-26; Page: 83-87 (1998).
3. A. S. A. Noor & **Md. Ayub Ali**; Relative annihilators around a neutral element of a lattice; Rajshahi University studies, Part-B, Vol-28; Page: 141-146 (2000).
4. **Md. Ayub Ali** & A. S. A. Noor; Some properties of Modular n -ideals of a lattice; Journal of Physical Sciences, Bidyasagar University, India. Vol-14, Page: 173-180 (2010).
5. **Md. Ayub Ali** & A. S. A. Noor; Lattices whose finitely generated n -ideals form a generalized Stone lattice; Journal of Physical Sciences, Bidyasagar University, India. Vol-15, Page: 7-16 (2011).
6. **Md. Ayub Ali** & A. S. A. Noor; On finitely generated n -ideals which form relatively Stone lattice; Institute of Mechanics of Continua and Mathematical Sciences, Township, Madhyamgram, Kolkata-700129, Vol-6, No-1, Page: 717-727 (2011).
7. **Md. Ayub Ali**; On distributive n -ideals of a lattice; Jahangirnagar University Journal of Sciences, Faculty of Mathematical and Physical Sciences, Jahangirnagar University, Saver, Dhaka. Vol.-34, Number-1, Page: 47-53; June-2011.
8. **Md. Ayub Ali** & A. S. A. Noor; Characterization of finitely generated n -ideals which form sectionally in B_m -lattices; News Buletin of Calcutta Mathematical Society, West Bengal, India, Vol.-34, Page: 67-73 (2011).

9. **Md. Ayub Ali** & Md. Rezaul Karim; Some results on minimal prime n -ideals of a lattice; Jagannath University Journal of Science, Jagannath University, Dhaka, Vol.-1, Issue-1, Page: 65-73 (2011).
10. Md. Rezaul Karim & **Md. Ayub Ali**; A generalization wave solution to (1+1) dimensional K-dV equation; Jagannath University Journal of Science, Jagannath University, Dhaka. Vol.-1, Issue-1, Page: 27-34 (2011).
11. **Md. Ayub Ali**, Md. Mizanur Rahman & Sompa Rani Podder; Generalization of some results on Relatively Stone lattices; Jagannath University Journal of Science, Jagannath University, Dhaka. Volume-1, Number-2, Page: 99-105 (2012).
12. Kh. Abdul Malek, **Md. Ayub Ali**, Hena Rani Biswas & Md. Rukonuzzaman; Heat and Mass transfer Incompressible fluid Flow Due to porous Rotating Disk with Molecular Diffusing Effect; Jagannath University Journal of Science, Jagannath University, Dhaka. Volume-1, Number-2, Page: 87-98 (2012).
13. **Md. Ayub Ali**; Some properties of neutral and standard n -ideals of a lattice; Jahangirnagar University Journal of Sciences, Faculty of Mathematical and Physical Sciences, Jahangirnagar University, Saver, Dhaka. Volume-35, Number-2, Page: 7-14 (2012).
14. **Md. Ayub Ali**, R. M. Hafizur Rahman & A. S. A. Noor; Prime Separation Theorem for α -ideals in a 0-distributive Lattice; Journal of Pure and Applied Science, Assam, India. Volume-12, Number-1, Page: 16-20 (2012).
15. **Md. Ayub Ali**, A. S. A. Noor & A. K. M. S. Islam; Annulets in a distributive nearlattice; Annals of Pure and Applied Mathematics. Vol. 1, No. 1, Page: 91-96 (2012).
16. A. S. A. Noor & **Md. Ayub Ali**; α -ideals in a distributive nearlattice; Journal of Physical Sciences, Bidyasagar University, India. Volume-16, Page: 1-7 (2012).
17. **Md. Ayub Ali**, Sompa Rani Podder & A. S. A. Noor; n -Distributive lattice; Journal of Physical Sciences, Bidyasagar University, India. Volume-16, Page: 23-30 (2012).
18. **Md. Ayub Ali**, R. M. Hafizur Rahman, A. S. A. Noor & Jahanara Begum; Some characterization of n -distributive lattices; Institute of Mechanics of Continua and Mathematical Sciences, Township, Madhyamgram, Kolkata-700129, Volume-7, Number-2, Page: 1045-1055 (2013).
19. R. M. Hafizur Rahman, **Md. Ayub Ali** & A. S. A. Noor; On Semiprime Ideals of a lattice; Institute of Mechanics of Continua and Mathematical Sciences, Township, Madhyamgram, Kolkata-700129. Volume-7, Number-2, Page: 1094-1102 (2013).
20. **Md. Ayub Ali** & A. S. A. Noor; 0-distributive meet semi lattices, Annals of Pure and Applied Mathematics. Vol. 1, Number-2, Page: 149-156 (2012).
21. Razia Sultana, **Md. Ayub Ali** & A. S. A. Noor; Some properties of 0-distributive and 1-distributive lattices; Annals of Pure and Applied Mathematics. Vol. 1, Number-2, Page: 168-175 (2012).
22. **Md. Ayub Ali** & A. S. A. Noor; Generalization of some results on relatively B_m -lattices; Journal of Pure and Applied Science, Assam, India. Volume-12, Number-2, Page: 78-87 (2012).
23. **Md. Ayub Ali**, R. M. Hafizur Rahman & A. S. A. Noor; Some properties of Semiprime ideals of lattices; Annals of Pure and Applied Mathematics, Vol. 1, Number-2, Page: 176-185 (2012).

24. **Md. Ayub Ali**, R. M. Hafizur Rahman, A. S. A. Noor & M. M. Rahman; On semi prime n -ideals of lattices; Annals of Pure and Applied Mathematics. Vol. 2, Number-1, Page: 10-17 (2012).
25. **Md. Ayub Ali**, A. S. A. Noor & S. R. Podder; Some characterizations of semi prime n -ideals of lattices; Annals of Pure and Applied Mathematics. Vol. 2, Number-1, Page: 1-9 (2012).
26. Shiuly Akter A. S. A. Noor & **Md. Ayub Ali**; Some properties of 1-Distributive join semi lattice, J. Mech. Cont. & Math. Sci. Vol. 9(2), 2015; P. 1377-1384.
27. **Md. Ayub Ali**, A. S. A. Noor; Prime separation theorem for alpha n -ideals of a n -distributive lattice, Jagannath University Journal of Science, Jagannath University, Dhaka. Vol. 04, No. 01, P. 99-106, 2015.
28. Momotaz Begum & A. S. A. Noor & **Md. Ayub Ali**; Some Characterizations of Semi Prime Ideals in Lattices, Progress in Nonlinear Dynamics and Chaos, Vol. 4, Number-2, Page: 59-66 (2016).
29. **Md. Ayub Ali**, Momotaz Begum & A. S. A. Noor, On Semi Prime Filters in Lattices, Annals of Pure and Applied Mathematics. Vol. 12, Number-2, Page: 129-136 (2016).
30. **Md. Ayub Ali**, On Semi Prime Filters in Join Semi Lattices, Jagannath University Journal of Science, Jagannath University, Dhaka. Vol. 05, No. 01, P. 9-16, 2017.
31. **Md. Ayub Ali**, Sompa Rani Podder & A. S. A. Noor; On Super Standard element of a lattice; Progress in Nonlinear Dynamics and Chaos, Vol. 6, Number-1, Page: 19-28 (2018).

Conference Papers:

1. Lattices whose finitely generated n -ideals form a generalized Stone lattice; Proceedings of the 16th Mathematics Conference of Bangladesh Mathematical Society, 17-19 December, 2009, BUET, Dhaka, Bangladesh.
2. Some properties of neutral and standard n -ideals of a lattice; Proceedings of the 16th Mathematics Conference of Bangladesh Mathematical Society, 17-19 December, 2009, BUET, Dhaka, Bangladesh.
3. On distributive nearlattice; Proceedings of the 17th Mathematics Conference of Bangladesh Mathematical Society, 22-24 December, 2011, Paper ID: p-11071, Jahangirnagar University, Saver, Dhaka, Bangladesh.
4. α -ideals in a distributive nearlattice; Proceedings of the 17th Mathematics Conference of Bangladesh Mathematical Society, 22-24 December, 2011, Paper ID: p-11072, Jahangirnagar University, Saver, Dhaka, Bangladesh.
5. n -distributive Lattice; Proceedings of the 17th Mathematics Conference of Bangladesh Mathematical Society, 22-24 December, 2011, Paper ID: p-11098, Jahangirnagar University, Saver, Dhaka, Bangladesh.
6. 0-distributive meet semilattices, International Mathematics Conference, 27-29 March Bardwan University, West Bengal, India.

7. A Separation Theorem for semi prime n -ideals, International Mathematics Conference, 22-23 March, 2013, Bidyasagar University, West Bengal, India.
8. A Separation Theorem for semi prime n -ideals of a lattices, 18th Mathematics Conference, 20-22 March 2014, Bangladesh Mathematical society, Independent University of Bangladesh, Dhaka.
9. Some Properties of semi prime n -ideals of a lattice, 19th Mathematics Conference, 18-20 December 2015, Bangladesh Mathematical society, Brac University, Bangladesh, Dhaka.

Conferences/Workshops/Seminar Attended:

1. **19th Mathematics Conference**, 18-20 December 2015, Bangladesh Mathematical Society, Brac University, Bangladesh, Dhaka.
2. **18th Mathematics Conference**, 20-22 March 2014, Bangladesh Mathematical Society, Independent University of Bangladesh, Dhaka.
3. **17th Mathematics Conference**, 22-24 December 2011, Bangladesh Mathematical Society, Jahangir nagar University, Saver, Dhaka, Bangladesh.
4. **16th Mathematics Conference**, 17-19 December 2009, Bangladesh Mathematical Society, Buet, Dhaka, Bangladesh.
5. **15th Mathematics Conference**, 29-31 December 2007, Bangladesh Mathematical Society, University of Dhaka, Dhaka, Bangladesh.
6. **Seminar:** on Fuzzy Matrices and Graph Theory & Its Applications, 21 March, 2011, Department of Mathematics, Jagannath University, Bangladesh.
7. **International Mathematics Conference**, 27-29 March, 2012, Bardwan University, West Bengal, India.
8. **International Mathematics Conference**, 22-23 March, 2013, Bidyasagar University, West Bengal, India.
9. **International Mathematics Conference**, 28-30 November, 2018, Sree Mata Bishnu Devi University, Katra, Jammu and Kashmir, India.

Professor Dr. Md. Ayub Ali