

Curriculum Vitae of

Dr. Md. Nur Alam



Dr. Md Nur Alam, Associate Professor of Mathematics, Pabna University of Science and Technology, Pabna, Bangladesh was born in Panchagarh, Bangladesh on 01 March 1986. He completed his B. Sc. (Hons.) and M. Sc. (Thesis) in Mathematics from Rajshahi University, Rajshahi, Bangladesh, in 2008 and 2009, respectively. His M. Sc. thesis was devoted to the applied mathematics to the studies on the nonlinear oscillations in perturbation theory. He also awarded M. Phil Degree in Mathematics in the field of mathematical physics in 2015 from Pabna University of Science and technology, Pabna-6600, Bangladesh. His M. Phil. thesis was devoted to the group approach to the study of Novel (G'/G)-expansion method and its applications of the nonlinear evolution equations in mathematical physics. He successfully completed his Ph. D. in Computational Mathematics from the University of Science and Technology of China (USTC, China) under a very prestigious scholarship, **CAS-TWAS Scholarship** that he was awarded (by an international competition) by the CAS-TWAS Scholarship Commission. His Ph. D. thesis was mainly concerned with Computer Aided Geometric Design and Computer Graphics. His PhD thesis was devoted to the computational mathematics to the Non-Uniform Subdivision Surfaces via Eigen Polyhedron. In 2012, he joined in a Lecture, the Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh. In 2014, he joined in an Assistant Professor, the Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh. In 2020 to till date, He is doing as an Associate Professor, the Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh. His current research interests include fluid flow, heat transfer, blood flow, nanofluid flow, single/hybrid nanofluid flow, transport in porous medium, computer graphics, CAGD, IGA, mathematical physics, integral and fractional order of PDEs, nonlinear dynamics, the theoretical plasma physics. He has published more than **100 papers, one book chapter and two books**. Dr.

Alam's research work already received 1,707 citations with h-index 25, and i10-index 53 and also his research work already received 1,825 citations with research gate score= 29.32.

Mr. Alam participated and presented his research findings at many national and international conferences. As young scientist and having research potentiality, he is supervising good number of students at graduate and post graduate levels.

Md. Nur Alam is a son of Md. Tariqul Islam and Rousnara Begum. He was born in the village Rampur, post office Bamankumar, Atwari of Panchagarh district in 1 March, 1986. He has two brothers and one sister.

Dr. Md. Nur Alam
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Google Scholar: <https://scholar.google.com/citations?user=JziOjEgAAAAJ&hl=en>

Research Gate: https://www.researchgate.net/profile/Md_Nur_Alam2

Personal Webpage: <https://sites.google.com/site/nuralammathpust/home/education>

PUST staff profile:

http://www.pust.ac.bd/academic/departments/mathematics/mathematics_teachers.html

Personal Information

Address in Bangladesh	Md. Nur Alam Associate Professor Department of Mathematics Pabna University of Science & Technology Pabna-6600, Bangladesh Email: nuralam.pstu23@gmail.com Mobile: +8801716438757
Permanent Address	Village: Rampur, P.O.: Bamankumar-5040, P.S. : Atwari, District: Panchagarh, Bangladesh
Father's Name	Md. Tariqul Islam
Mother's Name	Rousnara Begum
Date of Birth	1 March, 1986
Place of Birth	Bangladesh
Nationality	Bangladesh
Gender	Male
Religion	Islam
Marital Status	Married

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Research Interests

My current research interests are in the general areas of Computer graphics, Computer Aided geometric Design, Isogeometric Analysis, Computational Mathematics, Computational Fluid Dynamics (CFD) and Mathematical physics. I am working on the development of numerical modeling of Fluid Flow, Heat Transfer, blood flow, Nanofluid Flow, Single/Hybrid Nanofluid Flow, Transport in Porous Medium, and its applications by implementing COMSOL Multi-physics modeling and Tecplot software And My basic research interest is in computer graphics and geometric modeling related subjects. I love to work on challenging problems which are theoretically important or practically valuable in geometric modeling and isogeometric analysis, etc. More specifically, I am interested in the following research topics: Computer aided geometric design and modeling; Isogeometric Analysis; Computer graphics. I am also teaching and conducting research in the fields of soliton theory, application of fractional calculus, nonlinear evolution equations, nonlinear optics, water wave dynamics, and Bifurcation analysis as well as chaotic motion of dynamical systems.

Academic Background

Doctoral Degree

Name of Degree	PhD
Name of Institution	Graphics & Geometric Computing Laboratory, School of Mathematical Sciences, University of Science and Technology of China (USTC), Hefei, Anhui, 230026 China
Result	Awarded
Study Area	Non-Uniform Subdivision Surfaces via Eigen Polyhedron
Year of passing	17 July, 2020
My PhD Supervisor Name	Professor Dr. Xin Li (李新), <u>Link</u> : http://staff.ustc.edu.cn/~lixustc/

Master of Philosophy Degree

Name of Degree	Master of Philosophy in Mathematics
Name of Institution	Pabna University of Science & Technology, Pabna-6600, Bangladesh.
Result	Awarded
Study Area	Novel (G'/G)-expansion method and its application for solving nonlinear evolution equations in mathematical physics.
Year of passing	20 March, 2015
My PhD Supervisor Name	Professor Dr. Md. Ali Akbar <u>Link</u> : http://www.ru.ac.bd/appmath/faculty/

Master of Science

Name of Degree	Master of Science (Thesis) in Mathematics (Applied)
Name of Institution	University of Rajshahi, Rajshahi, Bangladesh.
Division/Class	First Class (A+ grade)
% Marks obtain	80
Thesis Title	Studies on the nonlinear oscillations in perturbation theory.
Principal subjects	Nonlinear oscillations, Industrial Mathematics, Biomathematics, Mathematical modeling & population dynamics, Computational stellar astrophysics.
Year of passing	2009 (Exam held in November 15, 2011)
My Master Thesis Supervisor Name	Professor Dr. M. Zulfikar Ali Link: http://www.ru.ac.bd/math/

Bachelor of Science

Name of Degree	Bachelor of Science in Mathematics
Name of Institution	University of Rajshahi, Rajshahi, Bangladesh.
Division/Class	First Class (A grade)
% Marks obtain	64
Principal subjects	Elements of Quantum Mechanics, Hydrodynamics, Astronomy, Electromagnetic Theory, Classical Mechanics, Mechanics, Operations Research, Methods of numerical Analysis, Mathematical Methods, Ordinary Differential Equations, Partial Differential Equations, Mechanics, Properties of Matter, Wave and Sound, Electricity and Magnetism, Heat, Radiation and Optics, Modern Physics and Thermodynamics, Computer Programming (Fortran 90), Discrete Mathematics and Programming with C, Vector and Tensor Analysis, Calculus-I, Calculus-II, Algebra and trigonometry, Geometry of two and three dimensions, Modern Algebra, Complex Analysis, Differential Geometry, Topology and Functional Analysis, Group Theory, Ring Theory, Set Theory, Real Analysis-I, Real Analysis-II, Introductory Statistics, Probability Theory, Statistical Methods and Demography, Math Practical (Math lab, Fortran C, C++).
Year of passing	2008 (Exam held in December 15, 2009)

Higher Secondary Certificate

Name of Degree	Higher Secondary Certificate
Name of Institution	Thakurgaon Govt. College, Bangladesh.
CGPA with Place	First Class with CGPA 3.40 (In the scale of 5.00)
% Marks obtain	60
Principal subjects	Bangla, English, Mathematics, Physics, Chemistry, Biology.
Year of passing	27 September, 2004.

Secondary School Certificate

Name of Degree	Secondary School Certificate
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Name of Institution	Atwari Pilot High School, Bangladesh.
CGPA with Place	First Class with CGPA 4.25 (In the scale of 5.00)
% Marks obtain	80
Principal subjects	Bangla, English, Mathematics, Higher Mathematics, Physics, Chemistry, Biology. Social Science, Islam studies.
Year of passing	3 July, 2002.

Teaching/professional Experiences

Period		Designation	Organization
From	To		
23/01/2012	22/01/2014	Lecturer, Department of Mathematics	Pabna University of Science and Technology (PUST), Pabna, Bangladesh
23/01/2014	22/07/2020	Assistant Professor, Department of Mathematics	Pabna University of Science and Technology (PUST), Pabna, Bangladesh
01/09/2016	31/07/2020	Doctoral Researcher, Graphics & Geometric Computing Laboratory, School of Mathematical Sciences	University of Science and Technology of China, Hefei, Anhui, 230026, China
23/07/2020	to till now	Associate Professor, Department of Mathematics	Pabna University of Science and Technology (PUST), Pabna, Bangladesh
01/07/2022	to till now	Additional Director, Institutional Quality Assurance Cell (IQAC)	Pabna University of Science and Technology (PUST), Pabna, Bangladesh
01/09/2014	27/08/2016	Assistant Proctor	Pabna University of Science and Technology (PUST), Pabna, Bangladesh
01/09/2021	27/07/2022	Assistant Proctor	Pabna University of Science and Technology (PUST), Pabna, Bangladesh

Academic and Merit awards

- ✓ Research Award-2022, Pabna University of Science and Technology.
- ✓ Young Scientist Award-2021, International scientist awards on engineering, science and medicine, held on 26 & 27-2021, Hyderabad, India, Organized by VDGGOOD PROFESSIONAL ASSOCIATION.
- ✓ Gold Medal for 1st class in Honours from Shaheed Ziaur Rahman Hall, University of Rajshahi, Bangladesh.
- ✓ CAS-TWAS scholarship PhD fellow, School of Mathematics Sciences, University of Science and Technology of China (USTC), Hefei, Anhui, 230026 China.
- ✓ Conference grant from School of Mathematical Sciences, University of Science and Technology of China (USTC), China, RMB 5500.00, 2019.

- ✓ Conference grant from Pabna University of Science and Technology, Bangladesh.
- ✓ Research Grant from Pabna University of Science and Technology funded by UGC, Bangladesh, BD TK. XXXXX.00, 2022-2023.
- ✓ Research Grant from Pabna University of Science and Technology funded by UGC, Bangladesh, BD TK. 108,000.00, 2021-2022.
- ✓ Research Grant from Pabna University of Science and Technology funded by UGC, Bangladesh, BD TK. 63,000.00, 2020-2021.
- ✓ Research grant from University Grants Commission (UGC) of Bangladesh. 2015-2016.

Area of Specialization and Research Interests

- Computer graphics and Geometrical Modeling
- Computer aided geometric design
- Isogeometric Analysis
- Fractional Calculus and Fractional Differential Equations
- Nonlinear Ordinary and Partial Differential Equations
- Computational Fluid Dynamics (CFD)

List of Book Publications/Published Book Chapters

Sl. No.	Year	Authors, Title and Book Information	ISBN	Affiliation
1.	2021	R. Zarin, E. Bonyah, Md. Nur Alam (2021). Book name: Applications of Fractional Calculus to Modeling in Dynamics and Chaos, (Chapter 1: Chaos and Multiple Attractors in Fractional Financial Model). CRC Press (Verlag), Taylor & Francis Group, ISBN: 978-0-367-43887-6. LINK: https://www.bokus.com/bok/9780367438876/applications-of-fractional-calculus-to-modeling-in-dynamics-and-chaos/	ISBN: 978-0-367-43887-6	PUST
2.	2020	Md. Nur Alam and M. A. Rahman, Integral and fractional nonlinear PDEs in mathematical physics, Lap Lambert academic publishing, ISBN-13: 978-620-2-67006-7, ISBN-10: 6202670061, EAN: 9786202670067, Published on: 2020-06-15. 2020	ISBN-13: 978-620-2-67006-7, ISBN-10: 6202670061, EAN: 9786202670067	PUST
3.	2017	Md. Nur Alam and M.A. Akbar, Novel (G'/G)-expansion method and its application for solving NLEEs, Lap Lambert academic publishing, ISBN-13:978-3-330-32637-8, ISBN-10: 3330326379, EAN:	ISBN-13:978-3-330-32637-8, ISBN-10: 3330326379,	PUST

	9783330326378, Published on: 2017-07-06, 2017.	EAN: 978333032637 8	
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List of Publications in ISI and Scopus indexing journals:

SI. No.	Year	Authors, Title and Journal Information	Impact Factor/Cite Score	Affiliation
80.	2022	Md. Nur Alam et al., "New results of some conformable models arising in dynamical systems "Advances in Mathematical Physics, Article ID 7753879. DOI: . (2022). (Indexed: ISI Impact factor: 1.364; SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 1.364	PUST
79.	2022	Md. Nur Alam et al., "Computation of the Complexity of Networks under Generalized Operations" Complexity Article ID 6288054. DOI: . (2022). (Indexed: ISI Impact factor: 2.121; SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 2.121	PUST
78.	2022	Basharat Ullah, Umar Khan, Hafiz Abdul Wahab, Ilyas Khan and Md. Nur Alam , Entropy Generation Analysis for MHD Flow of Hybrid Nanofluids over a Curved Stretching Surface with Shape Effects," Journal of Nanomaterials , vol. 2022, Article ID 8929985, 10 pages, (2022). DOI: https://doi.org/10.1155/2022/8929985 (Indexed: SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 3.791	PUST
77.	2022	Wahid Khan, Umar Khan, Adnan, Basharat Ullah, Naveed Ahmed, Ilyas Khan, Aisha M. Alqahtani and Md. Nur Alam , The Effects of Magneto-Radiative Parameters on the Heat Transfer Mechanism in H ₂ O Composed by Cu-Al ₂ O ₃ Hybrid Nanomaterial: Numerical Investigation, Mathematical Problems in Engineering , vol. 2022, Article ID 3098781, 10 pages, (2022). (Indexed: ISI Impact factor: 1.430; SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 1.430	PUST
76.	2022	Naveed Anjum, Jamshaid Ul Rahman, Ji-Huan He, Md. Nur Alam and Muhammad Suleman, An Efficient Analytical Approach for the Periodicity of Nano/Micro electromechanical Systems' Oscillators, Mathematical Problems in Engineering , vol. 2022, Article ID 9712199, 12 pages, (2022). (Indexed: ISI Impact factor: 1.430; SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 1.430	PUST
75.	2022	Muhammad Sajid, Apu Chowdhury, Ghulam Bary, Yin Guoliang, Riaz Ahmad, Ilyas Khan, Waqar Ahmed, Muhammad Farooq Saleem Khan, Aisha M. Alqahtani, and Md. Nur Alam , Conversion of Fructose to 5-Hydroxymethyl Furfural: Mathematical Solution with Experimental Validation, Journal of Mathematics , vol. 2022, Article ID 6989612, 8	IF: 1.555	PUST

		pages, (2022). (Indexed: SCI-E; SCOPUS; Q3 Journal; Hindawi publisher).		
74.	2022	Sami Ul Haq, Hammad Khaliq, Saeed Ullah Jan, Aisha M. Alqahtani, Ilyas Khan, and Md. Nur Alam , General Solution for Unsteady MHD Natural Convection Flow with Arbitrary Motion of the Infinite Vertical Plate Embedded in Porous Medium, Journal of Mathematics , vol. 2022, Article ID 9959564, 10 pages, (2022) (Indexed: SCI-E; SCOPUS; Q3 Journal; Hindawi publisher).	IF: 1.555	PUST
73.	2022	Hazoor Bux Lanjwani, Muhammad Saleem Chandio, M. Imran Anwar, Amnah S. Al-Johani, Ilyas Khan, and Md. Nur Alam , Triple Solutions with Stability Analysis of MHD Mixed Convection Flow of Micropolar Nanofluid with Radiation Effect, Journal of Nanomaterials , Volume 2022, Article ID 3147696 (2022). (Indexed: ISI Impact factor: 3.791; SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 3.791	PUST
72.	2022	Salman Zeb, Suliman Khan, Zakir Ullah, Muhammad Yousaf, Ilyas Khan, Nawa Alshammari, Md. Nur Alam , and Nawaf N. Hamadneh, Lie Group Analysis of Double Diffusive MHD Tangent Hyperbolic Fluid Flow over a Stretching Sheet, Mathematical Problems in Engineering , Vol. 2022, Article ID 9919073, (2022). (Indexed: SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 1.430	PUST
71.	2021	Faiz Muhammad Khan, Amjad Ali, Nawaf Hamadneh, Abdullah, and Md Nur Alam , Numerical Investigation of Chemical Schnakenberg Mathematical Model, Journal of Nanomaterials , Volume 2021, Article ID 9152972, 8 pages, (2021); (Indexed: SCI; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 3.791	PUST
70.	2021	Md. Fayz-Al-Asad, Mehmet Yavuz, Md. Nur Alam , M.M.A. Sarker, Omar Bazighifan, Influence of Fin Length on Magneto-Combined Convection Heat Transfer Performance in a Lid-Driven Wavy Cavity, Fractal and Fractional , 5, 107, (2021). (Indexed: SCI-E, SCOPUS; Q1 Journal; MDPI Publication publisher).	IF: 3.577	PUST
69.	2021	M.F.A Asad, Md. Nur Alam , Ahmed M. Rashad, M.M.A. Sarker, Impact of undulation on magneto-free convective heat transport in an enclosure having vertical wavy sides, International Communications in Heat and Mass Transfer , 127, 105579 (2021), (Indexed: ISI impact factor: 6.782; SCI; SCOPUS; Q1 Journal; Elsevier publisher).	IF: 6.782	PUST
68.	2021	T. Islam, Md. Nur Alam , N. Parveen, Yu-Ming Chu and M.I. Asjad, "Heatline Visualization of MHD Natural Convection Heat Transfer of Nanofluid in a Prismatic Enclosure" Scientific	IF: 4.379	PUST

		Reports , 11, 1-18, Article number: 10972 (2021) , DOI: 10.1038/s41598-021-89814-z, (Indexed: ISI IF: 4.379 ; SCI-E, SCOPUS; Q1 Journal; Nature publisher).		
67.	2021	M.F.A. Asad, Md. Nur Alam, H. Ahmad, M.M.A. Sarker, M. D. Alsulami and Khaled A.Gepreel, Impact of a Closed Space Rectangular Heat Source on Natural Convective Flow through Triangular Cavity, Results in Physics , Volume 23, April 2021, 104011 (2021). (Indexed: ISI IF: 4.476; SCI; SCOPUS; Q1 Journal; Elsevier publisher).	IF: 4.565	PUST
66.	2021	Md. Nur Alam and Xin Li, Non-Uniform Doo-Sabin Subdivision Surface via Eigen Polygon, Journal of Systems Science and Complexity , 34, 3–20 (2021). https://doi.org/10.1007/s11424-020-9264-z (Indexed: ISI IF: 1.260; SCI-E; SCOPUS; Q2 Journal; Springer publisher).	IF: 1.260	PUST
65.	2021	M.F.A. Asad, Md. Nur Alam , Cemil Tunc and M.M.A. Sarker, Heat Transport Exploration of Free Convection Flow inside Enclosure Having Vertical Wavy Walls, Journal of Applied and Computational Mechanics , Volume 7, Issue 2 Spring 2021, Pages 520-527, DOI: 10.22055/JACM.2020.35381.2646, (Indexed: ISI E-SCI; SCOPUS; Q2 Journal).	CiteScore: 4.7	PUST
64.	2021	Md. Fayz-Al-Asad; Md. Al-Rumman, Md. Nur Alam , Parvin, Salma; and Tunç, Cemil (2021). (R1496) Impact of Electronic States of Conical Shape of Indium Arsenide/Gallium Arsenide Semiconductor Quantum Dots, Applications and Applied Mathematics: An International Journal (AAM) , Vol. 16, Iss. 2 Article 14. Available at: https://digitalcommons.pvamu.edu/aam/vol16/iss2/14 , (Indexed: ISI E-SCI; Zentralblatt MATH; MathSciNet).	E-SCI	PUST
63.	2022	Muhammad Tanveer Hussain, Navid Iqbal, Usman Babar, Tabasam Rashid and Md. Nur Alam , On Sum Degree-Based Topological Indices of Some Connected Graphs, Mathematical Problems in Engineering , vol. 2022, Article ID 2961173, 19 pages, (2022). (Indexed: SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 1.430	PUST
62.	2022	Uzma Ahmad, Sara Ahmed, Muhammad Javaid and Md. Nur Alam , Computing Fault-Tolerant Metric Dimension of Connected Graphs," Journal of Mathematics , Vol. 2022, Article ID 9773089 (2022). (Indexed: SCI-E; SCOPUS; Q3 Journal; Hindawi publisher).	IF: 1.555	PUST
61.	2022	Muhammad Tanveer Hussain, Muhammad Javaid, Sajida Parveen, Hafiz Muhammad Awaiz and Md. Nur Alam , Studies of Metal Organic Networks via M-Polynomial-Based Topological	IF: 1.555	PUST

		Indices," Journal of Mathematics , Vol. 2022, Article ID 7407924, (2022). (Indexed: SCI-E; SCOPUS; Q3 Journal; Hindawi publisher).		
60.	2022	Muzamil Hanif, Akhlaq Ahmad Bhatti, Muhammad Javaid and Md. Nur Alam , On Vertex Degree Based Topological Indices for Fixed Branching Vertices of Trees, Journal of Chemistry , Volume 2022 Article ID 3642849 (2022). (Indexed: SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 3.241	PUST
59.	2022	Aqsa Sattar, Muhammad Javaid, and Md Nur Alam , On the Studies of Dendrimers via Connection-Based Molecular Descriptors, Mathematical Problems in Engineering , Article ID 1053484 Vol. 2022, Article ID 1053484, (2022). (Indexed: ISI Impact factor: 1.430; SCI-E; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 1.430	PUST
58.	2021	M.T. Hussain, M. Javaid, U. Ali, A. Raza and Md Nur Alam , Comparing Zinc Oxide and Zinc Silicate Related Metal Organic Networks Via Connection Based Zagreb Indices, <i>Journal of Chemistry</i> , Volume 2021, Article ID 5066394, 16 pages, (2021). (Indexed: ISI impact factor: 3.241; SCI; SCOPUS; Q1 Journal; Hindawi publisher).	IF: 3.241	PUST
57.	2022	Md. Nur Alam , Onur Alp İlhan, Md. Sabur Uddin and Md. Abdur Rahim, Regarding on the Results for the Fractional Clannish Random Walker's Parabolic Equation and the Nonlinear Fractional Cahn-Allen Equation, Advances in Mathematical Physics , Article ID 5635514 (2022). (Indexed: ISI Impact factor: 1.364; SCI-E; SCOPUS; Q3 Journal; Hindawi publisher).	IF: 1.364	PUST
56.	2022	Md. Nur Alam , Shariful Islam, Onur Alp İlhan, Hasan Bulut, Some New Results of Nonlinear Model Arising In Incompressible Visco-Elastic Kelvin-Voigt Fluid, Mathematical Methods in the Applied Sciences , Article ID: MMA8372, Article DOI: https://doi.org/10.1002/mma.8372 , First published: 11 May 2022 (2022). (Indexed: ISI Impact factor: 2.321; SCI-E; SCOPUS, Q1 Journal; Publisher: Wiley Online Library).	IF: 2.321	PUST
55.	2022	Md. Nur Alam , Ebenezer Bonyah and M.F.A. Asad, Reliable analysis for the Drinfel'd-Sokolov-Wilson equation in mathematical physics, Palestine Journal of Mathematics , Vol. 11(1) (2022), 397–407 (2022). (Indexed: SCOPUS; Zentralblatt Math; the American Math Reviews).	IF: 1.430	PUST
54.	2022	M. Sultana, U. Arshad, Md. Nur Alam , Omar Bazighifan, S.S. Askar, Jan Awrejcewicz, New results of the time-space fractional derivatives of Kortewege-De Vries equations via the novel analytic method, <i>Symmetry</i> 2021, 13(12), 2296; (2021). (Indexed: SCI; SCOPUS; Q1 Journal; MDPI publisher).	IF: 2.940	PUST

53.	2021	H. Ahmad, Md. Nur Alam , Md. Abdur Rahman, Maged F Alotaibid and M. Omri, The unified technique for the nonlinear time-fractional model with the beta-derivative, <i>Results in Physics</i> , 29, 104785, (2021).(Indexed: ISI impact factor: 4.565; SCI; SCOPUS; Q1 Journal; Elsevier publisher).	IF: 4.565	PUST
52.	2021	Imran Talib, Md. Nur Alam , Dumitru Baleanu, Danish Zaid, A decomposition algorithm coupled with operational matrices approach with applications to fractional differential equations, Thermal Science Journal, Thermal Science , 2021 25(Spec. issue 2):449-455, (2021). (Indexed: ISI impact factor: 1.625; SCI; SCOPUS; Q1 Journal; Vinča Institute of Nuclear Sciences, Belgrade publisher).	IF: 1.625	PUST
51.	2021	H. Ahmad, Md. Nur Alam and M. Omri, New computational results for a prototype of an excitable system, Results in Physics , 28, 104666 (2021) (Indexed: SCI; SCOPUS; Q1 Journal; Elsevier publisher).	IF: 4.565	PUST
50.	2021	Emad H. M. Zahran, Maha S. M. Shehata, S. M. Mirhosseini-Alizamini, Md Nur Alam , Lanre Akinyemi, “ Exact Propagation of the Isolated Waves Model Described by the Three Coupled Nonlinear Maccaris system with Complex Structure” International Journal of Modern Physics B , DOI: https://doi.org/10.1142/S0217979221501939 ; (Indexed: ISI impact factor: 1.219; SCI, SCI-E, SCOPUS; Q1 Journal; World Scientific publisher).	IF: 4.565	PUST
49.	2021	Huiqing Wang, Md Nur Alam , Onur Alp İlhan, Gurpreet Singh and Jalil Manafian, “ New complex wave structures to the complex Ginzburg-Landau model” AIMS Mathematics , 2021, Volume 6, Issue 8: 8883-8894, 2021. (Indexed: ISI impact factor: 2.739; SCI-E, SCOPUS; Q1 Journal; AIMS Press publisher).	IF: 4.565	PUST
48.	2021	H. Almusawa, Md. Nur Alam , Md. Fayz-Al Asad and M.S. Osman, “ New soliton configurations for two different models related to the nonlinear Schrödinger equation through a graded-index waveguide” AIP Advances , 11, 065320 (2021); (Indexed: ISI IF:1.703 ; SCI-E, SCOPUS; Q1 Journal; the American Institute of Physics (AIP) publisher).	IF: 4.565	PUST
47.	2021	I. Talib, Md. Nur Alam , D. Baleanu, D. Zaidi, A. Marriyam, “ A new integral operational matrix with applications to multi-order fractional differential equations” AIMS Mathematics , 6 (8), 8742-8771. (Indexed: ISI IF:1.427 ; SCI-E, SCOPUS; Q1 Journal; AIMS Press publisher).	IF: 1.245	PUST
46.	2021	Md. Nur Alam , Imran Talib, Omar Bazighifan,	IF: 2.258	PUST

		Dimplekumar N. Chalishajar and Barakah Almarri, An analytical technique implemented to the fractional Clannish Random Walker's parabolic equation with nonlinear physical phenomena, Mathematics , 2021, 9(8), 801. (Indexed: ISI IF: 2.258; SCI-E, SCOPUS; Q1 Journal; MDPI Publication publisher).		
45.	2021	Md. Nur Alam , E. Bonyah, Md. Fayz-Al-Asad, M. S. Osman, Kholod M. Abualnaja, Stable and functional solutions of the Klein-Fock-Gordon equation with nonlinear physical phenomena, Physica Scripta , 96 (2021) 055207. (Indexed: ISI IF: 2.487; SCI; SCOPUS; Q1 Journal; IOP Science publisher).	IF: 2.487	PUST
44.	2021	Md. Nur Alam , M.S. Uddin, and C. Tunc, Soliton wave solutions of the Oskolkov equation arising in incompressible viscoelastic Kelvin-Voigt fluid, Applied Analysis and Optimization , 5 (3), 335-342, (2021), (Indexed: ; Yokohama Publishers, Japan).	Japan	PUST
43.	2021	Md. Nur Alam and M.S. Osman, New structures for closed-form wave solutions for the dynamical equations model related to the ion sound and Langmuir waves, Communications in Theoretical Physics , 73 (3), 035001, (2021). (Indexed: ISI IF: 1.968; SCI; SCOPUS; Q3 Journal; IOP Science publisher).	IF: 1.968	PUST
42.	2021	S. Islam, Md. Nur Alam , M.F.A. Asad and Cemil Tunc, An analytical technique for solving new computational solutions of the modified Zakharov-Kuznetsov equation arising in electrical engineering, Journal of Applied and Computational Mechanics , Volume 7, Issue 2, Spring 2021, Pages 715-726. (Indexed: ISI E-SCI; SCOPUS; Q2 Journal).	CiteScore: 4.7	PUST
41.	2020	Md. Nur Alam , Aly R. Seadawy and Dumitru Baleanu, Closed-form wave structures of the space-time fractional Hirota-Satsuma coupled KdV equation with nonlinear physical phenomena, Open Physics , 18(1): 555-565, (2020). (Indexed: ISI IF: 1.067; SCI-E; SCOPUS; Q3 Journal; DE GRUYTER publisher).	IF: 1.067	PUST
40.	2020	Md. Nur Alam and Cemil Tunc, New solitary wave structures to the (2+1)-dimensional KD and KP equations with spatio-temporal dispersion, Journal of King Saud University-Science , 32 (8), 3400-3409, (2020). (Indexed: ISI IF: 4.011; SCI-E; SCOPUS; Q1 Journal; Elsevier publisher).	IF: 4.011	PUST
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5.	2013	Md. Nur Alam , M.A. Akbar and H.O. Roshid, Study of nonlinear evolution equations to construct traveling wave solutions via the new approach of the generalized (G'/G) -expansion method, Mathematics and Statistics , 1(3): 102-112, 2013, (Indexed: SCOPUS; Horizon Research Publisher (USA)).	Cite Score: 0.8	PUST
4.	2016	Md. Nur Alam and Y.A. Stepanyants, New generalized (G'/G) -expansion method in investigating the traveling wave solutions to the typical breaking soliton and the Benjamin-Bona-Mahony equations, International Journal of Mathematics and Computation , 27 (3): 69-82, 2016. (Indexed: Zentralblatt MATH, Mathematical Reviews, MathSciNet, Current Index to Statistics (CIS); CESER Publication).	IF:	PUST
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Published papers in conference proceedings reviewed to the extending abstract

1. **Md. Nur Alam** and M.Ali Akbar, Application of the new generalized (G'/G) -expansion method to the right-handed non-commutative Burgers equation, 1st International Conference on Mathematics and Its Applications, December 23, Page 31-41, 2015, Mathematics Discipline, Khulna University, Khulna-9208, Bangladesh.

B. S. (Honours.) Project Supervision (without Grant)

- i. Mst. Kamrunnasa Kona, Student ID-160364, Reg. No.:1032272; Most. Shapla Khatun, Student ID-160360, Reg. No.: 1032268; Nizam Hossain, Student ID-160363, Reg. No.:1032271 Session: 2015-2016 (completed)
- ii. Rashmin Akter, Student ID-110322, Md. Rakibul Islam, Student ID-110339, Md. Ziuar Rahman, Student ID-110338, Session: 2010-2011 (completed)
- iii. Md. Sabur Uddin, Student ID-100312, Md. Samiul Hasan, Student No.-100346, S.M. Shamim Hossain, Student ID-100331 Session: 2009-2010 (Completed)
- iv. Kaniz Fatema, Student ID-090317, Sarowar Hossain Student No.-021232, Sumon Kumar Sarma, Student ID-090341 Session: 2008-2009 (Completed).

M. S. (Major in Applied Mathematics) Project Supervision (without Grant)

- i. Name: **Uzzal Saha**, Student ID: 160304, Reg. No: 1032234, Thesis title: **B-Spline curve theory and numerical solutions of differential equations using B-Spline method**, Session: 2019-2020, 2022 (On Going).
- ii. Name: **Mst. Umme Mahmuda Maya**, Student ID: XX, Reg. No: XX, Thesis title: **Effect of closed space rectangular heat source on MHD mixed convection flow in a lid driven cavity with heated wavy bottom surface with internal heat generation or absorption**, Session: XX-XX, 2022 (On Going).
- iii. Name: **Md. Sabur Uddin**, Student ID: 100312, Reg. No: 0325, Thesis title: **Exact and traveling wave solutions to some nonlinear physical models**, Session 2009-2010, 2016 (completed).
- iv. Name: **Mst. Munni Khatun**, Student ID: 100334, Reg. No: 0346, Thesis title: **Exact and solitary wave solutions to some nonlinear physical models**, Session 2009-2010, 2016 (completed).

Administrative or Other Experience

- i. Additional Director (01 July 2022- till date): Institutional Quality Assurance Cell (IQAC), Pabna University of Science and Technology, Pabna, Bangladesh.
- ii. Guest Editors, Special issue title: RECENT ADVANCES IN FRACTIONAL CALCULUS AND NONLINEAR FRACTIONAL EVALUATION EQUATIONS, Journal Name: Demonstratio Mathematica, Publisher name: De Gruyter Open Access; (Indexed: Web of Science (ESCI), SCOPUS, MathSciNet and zbMATH; Q2 Journal). The deadline for submissions is 28th February 2022. LINK: <https://www.degruyter.com/journal/key/dema/html?lang=en>

- iii. Chief Editor, VDGGOOD Journal of Mathematics, India, 2021 - present. LINK:
https://www.vdgood.org/editorial_board/vdgood-journal-of-mathematics
- iv. Editorial Board Member, WAS Science Nature (WASSN) (ISSN: 2766-7715) , USA, 2021/06/06 - present. LINK:
<http://worldascience.com/journals/index.php/wassn/about/editorialTeam>
- v. Certificate of Membership : One year membership, ACTIVE MEMBER OF VDGGOOD PROFESSIONAL ASSOCIATION, Valid up to 27-Feb-2022.
- vi. Guest Editors, Special issue title: Recent Advances in Fractional Calculus, Fractional Ordinary, Fractional Functional and Fractional Partial Differential Equations, Journal Name: Applied Analysis and Optimization, Publishing Date: April/August 2022; Publisher: PSR PressYokohama Publishers, Japan. LINK: <http://www.ybook.co.jp/ao.html>
- vii. Guest Editors, Special issue title: Analytical and numerical study of nonlinear partial differential equations, Journal Name: Open Journal of Mathematical Science (OMS), Deadline for submission: 30/09/2021; Publishing Date: 30/12/2021; Publisher: PSR Press, Pakistan. LINK: https://pisrt.org/psr-press/journals/oms/open-special-issues/?fbclid=IwAR2oyXNkw_1-Z9ZeLp1mP3eNltI-AxrJP3PjISjUvMXUwkta19L2h1PB2pk#Analytical-and-Numerical-Study-of-Nonlinear-Partial-Differential-Equation
- viii. Editorial Board Member, SI International Journal of Mathematics (SIJM), USA, 2021/05/21 - present. LINK: <https://scienceinput.com/journals/index.php/SIJM/about/editorialTeam>
- ix. Member Academic Committee, Department of Mathematics, Pabna University of Sciences and Technology, From 23/07/2020 to till now
- x. Editorial Board Member, Journal of Fractional Calculus and Nonlinear Systems (JFCNS), Saba Publishing, Kuwait, 2020 - present. LINK:
<https://sabapub.com/index.php/jfcns/about/editorialTeam>
- xi. Editorial Board Member, Journal of Mathematical Analysis and Modeling, Saba Publishing, Kuwait, 2020 - present. LINK:
<https://www.sabapub.com/index.php/jmam/about/editorialTeam>
- xii. Editorial Board Member, SCIREA Journal of Mathematics, 2016 - present. LINK:
<http://www.scirea.org/journal/EditorialBoard?JournalID=11000>
- xiii. Editorial Board Member, Journal of Statistics and Mathematical Engineering (e-ISSN: 2581-7647), India, 2020 - present. LINK:
<http://matjournals.in/index.php/JOSME/about/editorialTeam>

- xiv. Editorial Board Member (Section Editor), Global Journal of Physics, Global Publishing Corporation, India, 2016 - present. LINK:
<http://gpcpublishing.org/index.php/gjp/about/editorialTeam>
- xv. Editorial Board Member (Section Editor), Global Journal of Mathematics, Global Publishing Corporation, India, 2016 - present. LINK:
<http://gpcpublishing.org/index.php/gjm/about/editorialTeam>
- xvi. Editorial Board Member, Computational Mathematics and Applications, Bangladesh, 2020 - present. LINK: http://cmathapp.net/index.php/editorial_team
- xvii. Editorial Board Member, Contemporary Mathematics, Singapore, 2020 - present. LINK:
<http://ojs.wiserpub.com/index.php/CM/about/editorialTeam>
- xviii. Assistant Proctor, Pabna University of Science and Technology, Pabna, Bangladesh. 01 September, 2014 to 27 August, 2016
- xix. Life Member: Bangladesh Mathematical Society: Membership Number.-972. Link:
<file:///F:/11-Mathlab%20Good/Cubic%20spline%20interpolations/BMSMemberList070220.pdf>
- xx. Life Member: IJENS Researchers Promotion Group (IJENS-RPG): Membership Number IJENS-1355-Aslam
- xxi. Member : IAENG international Association of ENGINEERS: Member Number 140568
- xxii. Life member : DNA (Link: <http://livedna.org/880.8155>)
- xxiii. Program Convener of Math Olympiad, Intra University fair-2014, Venue: Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna, Bangladesh.
- xxiv. Reviewer: Elsevier, Springer Nature, IOP Science, Taylor and Francis, Wiley online and so many Journals.

Computer Skills

- **Application software:** Latex, MS Word, MS Excel, Power Point, MS Access, MS-DOS Promt and SPSS (Statistical Package for the Social Science).
- **Programming:** C++, Visual studio C++, MFC, OpenGL, OpenMesh, Qt, C, MAPLE, Mathematica, Matlab and FORTRAN language.

Extra Curricular Activities

- **Cultural involvement:** Program Convener of Math Olympiad, Intra University fair-2014, Department of Computer Science & Engineering, Pabna University of Science & Technology.

- **Playing:** Table tennis, Cricket, Football, Carom, Chess, badminton etc.
- **Hobby:** Singing, reading novel, travelling.

Language Proficiency

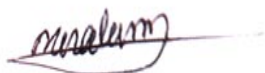
- Writing and speaking (fluently): English and Bengali.
- Bengali: Good Skill in reading, writing and speaking (Mother tongue)
- English: Good Skill in reading, writing, speaking and understanding
- English is the language of instruction for all courses taught in my B.Sc. and M.Sc. degree in mathematics Department, University of Rajshahi, Rajshahi-6205, Bangladesh.
- English is the language of instruction for all courses taught in my M.Phil. degree in Mathematics Department, Pabna University of Science & Technology, Pabna-6600, Bangladesh.

References

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<p>Professor Dr. M. Zulfikar Ali (My Master Thesis Supervisor), Department of Mathematics, Rajshahi University, Rajshahi-6600 Bangladesh. Phone: +881556308978 Email: zulfi1022002@yahoo.com</p>	<p>Professor Dr. Fethi Bin Muhammad Belgacem, Department of Mathematics, Faculty of Basic Education, PAAET, Al-Ardhiya, Kuwait. E-mail: fmbelgacem@gmail.com</p>

Statement of Integrity

- I declare that all information furnished in these curriculum vitae are correct and complete.



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