

Curriculum Vitae of Mr. Md. Nur Alam

Address:

Md. Nur Alam
Lecturer
Department of Mathematics
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1. Education

2012-Present	<p>M. Phil. in Mathematics, Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh.</p> <ul style="list-style-type: none"> Thesis Title: Novel (G'/G)-expansion method and its application for solving nonlinear evolution equations in mathematical physics.
2008– 2009	<p>M. Sc. (Thesis) in Mathematics, University of Rajshahi, Bangladesh.</p> <ul style="list-style-type: none"> Result: First Class (80%) Thesis Title: Studies on the nonlinear oscillations in perturbation theory.
2004 – 2008	<p>B. Sc. (Hons.) in Mathematics, University of Rajshahi, Bangladesh.</p> <ul style="list-style-type: none"> Result: First Class (64%)

2. Academic and Merit Awards

<ul style="list-style-type: none"> Honours Examination 2008 Shaheed Ziaur Rahman Hall Gold Medal.
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3. Teaching/professional Experiences:

From January 23, 2012 to till date	<p>Lecturer, Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh.</p>
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4. Research Articles:

- Md. Nur Alam**, M.Ali Akbar and S.T. Mohyud-Din, A novel (G'/G)-expansion method and its application to the Boussinesq equation, *Chin. Phys. B*, vol. 23(2), 2014, 020203-020210, DOI: 10.1088/1674-1056/23/2/020203. (**IOP Science Indexed: SCOPUS, ISI, IF: 1.148**).
- Md. Nur Alam**, M. Ali Akbar and Kamruzzaman Khan, Some new exact traveling wave solutions to the (2+1)-dimensional breaking soliton equation, *World Applied Sciences Journal*, 25(3): 500-523, 2013 DOI: 10.5829/idosi.wasj.2013.25.03.1193. (**Indexed: SCOPUS, ISI, IF: 0.234**).
- Md. Nur Alam** and M.Ali Akbar, Exact traveling wave solutions of the KP-BBM equation by using the new approach of generalized (G'/G)-Expansion Method, *SpringerPlus*, 2: 617, 2013, DOI: 10.1186/2193-1801-2-617. (**Springer, SCOPUS**).
- Md. Nur Alam** and M.Ali Akbar, The new approach of generalized (G'/G)-Expansion Method for nonlinear evolution equations, *Ain Shams Engineering*, (2014) XXX, XXX-XXX, <http://dx.doi.org/10.1016/j.asej.2013.12.008> (**Elsevier, SCOPUS**) (in press).
- Md. Nur Alam** and M. Ali Akbar, Some new exact traveling wave solutions to the simplified MCH equation and the (1+1)-dimensional combined KdV-mKdV equations, *Journal of the Association of Arab Universities for Basic and Applied Sciences*, (2013) XXX, XXX-XXX, <http://dx.doi.org/10.1016/j.jaubas.2013.12.001> (**Elsevier, SCOPUS**) (in press).

6. **Md. Nur Alam**, M.Ali Akbar and S.T. Mohyud-Din, General traveling wave solutions of the strain wave equation in microstructured solids via the new approach of generalized (G'/G) -Expansion method, Alexandria Engineering Journal, (2014) XXX, XXX-XXX, <http://dx.doi.org/10.1016/j.aej.2014.01.002> (**Elsevier, SCOPUS**) (in press).
7. **Md. Nur Alam** and M.Ali Akbar, Traveling wave solutions for the mKdV equation and the Gardner equation by new approach of the generalized (G'/G) -expansion method, Journal of the Egyptian Mathematical Society, (2014) XXX, XXX-XXX, <http://dx.doi.org/10.1016/j.joems.2014.01.001> (**Elsevier, SCOPUS**) (in press).
8. **Md. Nur Alam** and M.Ali Akbar, H.O. Roshid, Traveling wave solutions of the Boussinesq equation via the new approach of generalized (G'/G) -Expansion Method, SpringerPlus 2014, 3:43 doi:10.1186/2193-1801-3-43, (**Springer, SCOPUS**).
9. **Md. Nur Alam** and M.A. Akbar, A novel (G'/G) -expansion method and its application to the Burgers equation, Walailak Journal of Science and Technology, Vol. 11, 2014. (**SCOPUS**).
10. Kamruzzaman Khan, M. Ali Akbar and **Md. Nur Alam**, Traveling wave solutions of the nonlinear Drinfel'd-Sokolov-Wilson equation and modified Benjamin-Bona-Mahony equations, J. Egyptian Math. Soc., 21, 233-240, 2013.<http://dx.doi.org/10.1016/j.joems.2013.04.010>. (**Indexed: SCOPUS, Elsevier**).
11. **Md. Nur Alam** and M.Ali Akbar, Traveling wave solutions of the nonlinear (1+1)-dimensional modified Benjamin-Bona-Mahony equation by using novel (G'/G) -expansion method, Physical Review & Research International (Sciencedomain international), 4(1): 147-165, 2014. (**ISI**).
12. **Md. Nur Alam** and M.Ali Akbar, Application of the the new approach of generalized (G'/G) -expansion method to find exact solutions of nonlinear PDEs in mathematical physics, BIBECHANA, 10: 58-70, 2014.
13. N. Rahman, H.O. Roshid, **Md. Nur Alam** and S. Zafor, Traveling Wave Solutions of The (1+1)-Dimensional Compound KdVB equation by $\exp(-\Phi(\eta))$ -Expansion Method, International Journal of Scientific Engineering and Technology, Volume No.3 Issue No.2, pp : 93 - 97, 2014 (**ISI**).
14. S. Akter, H.O. Roshid, **Md. Nur Alam** and N. Rahman, Application of the $\exp(-\Phi(\eta))$ -expansion method to find the exact solutions of nonlinear evolution equations, IOSR J-M, Vol. 9 (6), (Jan. 2014), 106-113.
15. **Md. Nur Alam** and M.Ali Akbar, Traveling wave solutions of nonlinear evolution equations via the new approach of the generalized (G'/G) -Expansion Method, Universal Journal of Computational Mathematics, 1(4): 129-136, 3013, DOI: 10.13189/ujcmj.2013.010403, (**USA**).
16. **Md. Nur Alam**, M.Ali Akbar and Harun-Or-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, DOI: 10.13189/ms.2013.010302, (**USA**).
17. Harun-Or-Roshid, **Md. Nur Alam**, M.F. Hoque and M.Ali Akbar, A new extended (G'/G) -expansion method to find exact traveling wave solutions of nonlinear evolution equations, Mathematics and Statistics, 1(3): 162-166, 2013, DOI: 10.13189/ms.2013.010308, (**USA**).
18. S.M Shamim Hasan, **Md. Nur Alam**, Md. Sabur Uddin, Md. Samiul Hasan and M. Ali Akbar, Exact traveling wave solutions of the fifth-order KdV equation via the new approach of generalized (G'/G) -expansion method, International Journal of Mathematics and Computer Research, Vol. 1(11), 2013, 283-302.
19. H.O. Roshid, M.F. Hoque, **Md. Nur Alam** and M.Ali Akbar, New extended (G'/G) -expansion method and its application in the (3+1)-dimensional equation to find new exact traveling wave solutions, Universal Journal of Computational Mathematics, 2(2): 32-37, 2014. DOI: 10.13189/ujcmj.2014.020203 <http://www.hrpub.org>, (**USA**).
20. Md. Sabur Uddin, **Md. Nur Alam**, S.M Shami Hossain, Md. Samiul Hasan and M.Ali Akbar, Some new exact traveling wave solutions to the (3+1)-dimensional Zakharov-Kuznetsov equation and the

Burgers equations via $\text{Exp}(-\Phi(\eta))$ -Expansion Method, Frontiers of Mathematics and Its Applications, 1(1): 1-8, 2014. DOI: 10.12966/fmia.03.01.2014, (USA).

21. Rafiqul Islam, **Md. Nur Alam**, A.K.M. Kazi Sazzad Hossain, Harun-Or-Roshid and M.A. Akbar, Traveling wave solutions of nonlinear evolution equations via $\text{exp}(-\Phi(\eta))$ -expansion method, Global Journal of Scientific Frontier Research, Vol. 13 (11), 2014 (Accepted for publication).
22. N. Rahman, S. Akter, H.O. Roshid and **Md. Nur Alam**, Traveling Wave Solutions of The (1+1)-Dimensional Compound KdVB equation by $\text{Exp}(-\Phi(\eta))$ -Expansion Method, Global Journal of Science Frontier Research, Vol. 13 (8), 2014 (Accepted for publication).
23. Md. Nur Alam, M. Ali Akbar and M.F. Hoque, Exact traveling wave solutions of the (3+1)-dimensional mKdV-ZK equation and the (1+1)-dimensional compound KdVB equation using new approach of the generalized (G'/G) -expansion method, Pramana Journal of Physics, (Accepted for publication) (**Indexed: SCOPUS, ISI; IF: 0.562, Springer**).

5. Submitted Research Articles: Twenty five research articles have been submitted in international (ISI and Scopus Indexed) journals.

6. B. Sc. (Hons.) Project Supervision:

- i. Kaniz Fatema, student ID-090317, Sarowar Hossain Student No.-021232, Sumon Kumar Sarma, student ID-090341 2008-2009 Session 2008-2009 (Completed).
- ii. Md. Sabur Uddin, student ID-100312, Md. Samiul Hasan, Student No.-100346, S.M. Shamim Hossain, student ID-100331 2009-2010 Session 2009-2010 (Present).

7. Reviewer:

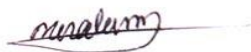
- Applied Mathematics and Computational (Elsevier).

8. Computer Skills:

- C++
- FORTRAN
- MAPLE
- MATHEMATICA
- MS Word, MS excel, Power Point.

9. Languages:

- Writing and speaking (fluently): English and Bengali.



(Mr. Md. Nur Alam)