Curriculum Vitae of
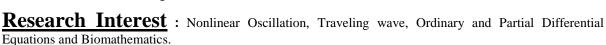**Harun-Or-Roshid**
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Harun-Or-Roshid
Assistant Professor
Department of Mathematics
Pabna University of Sciences and Technology
Pabna – 6600, Bangladesh
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<u>Research Interest</u> : Nonlinear Oscillation, Traveling wave, Ordinary and Partial Differential Equations and Biomathematics.

Academic Background:

Degree	Name of Board/ University	Year of passing	Division/Class obtained	Field/Discipline
M. Sc.	Rajshahi University	2006	First Class (1st position)	Mathematics (Applied) (Thesis Group)
B. Sc.(Hons)	Rajshahi University	2005	First Class (2nd position)	Mathematics
H. S. C	Dhaka Board	2001	First Division	Science Group
S. S. C	Dhaka Board	1999	First Division	Science Group
Ph.D	Rajshahi University	2014		Nonlinear Oscillation

Employment History:

Dates	Name of the Institution	Post held
From 01/04/2012 to till now	Dept. of Mathematics, Pabna University of Science and Technology	Assistant Professor
From 01/04/2009 to 31/03/2012	Dept. of Mathematics, Pabna University of Science and Technology	Lecturer

<u>Title of Ph. D. Thesis:</u> Asymptotic method for time dependent nonlinear Ordinary differential equations with slowly varying coefficients.

<u>Title of M. Sc. Thesis:</u> Quasi-periodic solutions of Duffing type equations.

Research Articles:

1. **Harun-Or-Roshid,** M. Ali Akbar**,** M. N. Alam, M. F. Hoque and N. Rahman, New extended (G'/G)-expansion method to solve nonlinear evolution equation: The (3+1)-dimensional potential-YTSF equation, SpringerPlus, Vol. 3(2), 122, 2014. doi:10.1186/2193-1801-3-122. (**SCOPUS**, **Springer**)

2. M. N. Alam, M. Ali Akbar, **Harun-Or-Roshid**, Traveling wave solutions of the Boussinesq equation via the new approach of generalized (G′/G)-expansion method, SpringerPlus, Vol. 3(1), 43, 2014. (**SCOPUS**, **Springer**)

3. **Harun-Or-Roshid**, N. Rahman and M.A. Akbar, Traveling waves solutions of nonlinear Klein Gordon equation by extended (G′/G)-expasion method, Annals of Pure and Appl. Math. , 3, 10-16, 2013.

4. M.F. Hoque, **Harun-Or-Roshid**, A.C. Paul, The θ-Centralizers of Semiprime Gamma Rings, Research Journal of Applied Sciences, Engineering and Technology 6(22): 4129-4137, 2013, Maxwell Scientific Organization, 2013, (**ISI, SCOPUS**)

5. M.F. Hoque, **Harun-Or-Roshid**, A.C. Paul, An Equation Related to θ -Centralizers in Semiprime Gamma Rings, International J. Math. Combin. Vol. 4(2012), 17-26, 2012. (**Zentelblat Math**).

6. **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, <u>Mathematics and Statistics</u>, 1(3): 162-166, 2013, DOI: 10.13189/ms.2013.010308, (**USA**).

7. **Harun-Or-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**).

8. M. N. 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, <u>Mathematics and Statistics</u>, 1(3): 102-112, 2013, DOI: 10.13189/ms.2013.010302, (**USA**).

9. N. Rahman, S. Akter, **Harun-Or-Roshid** and M. N. Alam, Traveling wave solutions of the (1+1)-dimensional compound KdVB equation by $\mathrm{Exp}\,(-\Phi(\eta))$ -expansion method, <u>Global J. of Sci. Frontier Research- Physics and Space Sci.</u> Vol. 13 (8), 6-13, 2013.

10. N. Rahman, **Harun-Or-Roshid**, M. N. Alam, S. Zafor, Exact traveling wave solutions of the nonlinear (2+1)-dimensional typical breaking soliton equation via Exp-(-ϕ(ξ))-expansion method, International J. of Sci. Eng. and Tech., Vol. 3(2), 93-97, 2014.

11. N. Rahman, M. N. Alam, **Harun-Or-Roshid,** S. Akter, M. Ali Akbar, Application of Exp-(-ϕ(ξ))-expansion method to find the exact solutions of Shorma-Tasso-Olver Equation, African J. of Math. and Com. Sci. Research, Vol. 7(1), 1-6, 2014.

12. S. Akter, **Harun-Or-Roshid**, M.N. Alam, N. Rahman, M. Ali Akbar, Application of Exp-(-ϕ(η)) -expansion method to find the exact solutions of nonlinear evolution equations, IOSR J. of Math., Vol. 9(6), 106-113, 2014.

13. M. A. Huda, **Md. Harun-Or-Roshid**, A. Islam, Mst. Mumtahinah, Sensitivity and Accuracy of Eigenvalues Relative to Their Perturbation, J. Mech. Cont. & Math. Sci., Vol. 6(1), 780-796, 2011.

14. M. M. Rahman, **Harun-Or-Roshid**; M. A. Mozid Pk, M. A. A. Mamun,A comparative study of wavelet transform and fourier transform, J. of Physical Sci., Vol. 15(2011), 149-160, 2011.

15. M. F. Hoque, M. R. Amin, **Harun-Or-Roshid**, Some Features of a - T2 Spaces in Supra Fuzzy Topology, International J. Eng. Tech. Vol. 7(4), 728-733, 2010.

16. 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 $\exp(-\Phi(\eta))$ -expansion method, <u>Global Journal of Scientific Frontier Research,</u> Vol. 13 (11), 2013.

17. K Khan, MA Akbar and Harun-Or-Roshid, Exact Traveling Wave Solutions of Nonlinear Evolution Equation via Enhanced (G'/G)-Expansion Method, British Journal of Mathematics & Computer Science Vol. 4 no. 10, pp.1318-1334, 2014.

18. Harun-Or-Roshid, M. H. Uddin, M. M. Hossain, M. H. Rahman, Exact Traveling Wave Solutions to Vakhnenko-Parkes Equation, International Journal of Software & Hardware Research Engineering, Vol. 2, No. 5, 2014.

19. M. N. Alam, M. A. Akbar, M. S. Ulla and Harun-Or-Roshid, A Note on Novel (G/G)-expansion Method in Nonlinear Physics, SOP TRANSACTIONS ON THEORETICAL PHYSICS, Vol. 1, No. 1, 2014.

Submitted Research articles: Ten research articles have been submitted in international (including ISI and SCOPUS indexed) journals.

B. Sc. (Hons.) Project Supervision:

i. Purabi Kuddo, student ID-090328, Rizvi Ahammed, student ID-090311, Anisur Rahaman Id-090303, 2008-2009.

Reviewer:
   i.   British Journal of Mathematics and Computational (Science Domain)

   ii. Physical Science International Journal (Science Domain)

   iii. Journal of Scientific Research and Reports **(Science Domain)**

   iv. International Journal of Scientific Engeneering and Technology

Academic Awards:
1. A. F Muzibur Rahmar foundation Hall Gold Medal.

Subjects Studies:
(a) M. Sc. Program: Computational Stellar Astrophysics, Relativity & Cosmology, Mathematical Modeling & Population Dynamics, Biomathematics, Aerodynamics, Nonlinear Oscillations, Industrial Mathematics, Quantum Mechanics, Computational Fluid Dynamics.

(b) B. Sc. Program: Algebra and Trigonometry, Geometry, Calculus, Real Analysis, Vector and Tensor Analysis, Differential Equations, Complex Analysis, Mechanics, Mathematical Methods, Numerical Analysis, Discrete Mathematics, Operation Research, Ring Theory, Group Theory, Hydrodynamics, Elements of Quantum Mechanics, Electromagnetic Theory, Classical Mechanics, Differential Geometry, Astronomy.

Teaching Interest:
(a) Undergraduate Level: Differential Equations, Hydrodynamics, Mechanics, Geometry, Numerical Analysis, Complex analysis, Calculus and others.

(b) Graduate Level: Mathematical Modeling & Population Dynamics, Quantum Mechanics, Numerical Analysis, Astronomy, Biomathematics, Computational Fluid Dynamics.

Computer Skills: C/C^{++}, FORTRAN, MAPLE, MATHEMATICA, MS Word, MS excel, Power Point.

Languages:

Writing and Speaking (fluently): English and Bengali.

Personal Profile:

1. Name　: Harun-Or-Roshid
2. Occupation: Assistant Professor, Department of Mathematics, Pabna Science and Technology University, Pabna – 6600, Bangladesh.
3. Father's Name: Md. Akteruzzaman
4. Mother's Name: Tahmina Begum
5. Date of Birth: 11th November, 1983.
6. Sex: Male
7. Marital Status: Double
8. Nationality: Bangladeshi
9. Present Address: Assistant Professor, Department of Mathematics, Pabna Science & Technology University, Pabna – 6600, Bangladesh.
10. Permanent Address: Vill: Bindhan, Post: Ullokhala Bazar, Thana & District: Gazipur, Bangladesh.

(Harun-Or-Roshid)