

## CURRICULUM VITAE

Name: ANINDYA GHOSE-CHOUDHURY

Date of Birth: 14 June 1966

Affiliation: Department of Physics,  
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Current designation: Professor in Physics  
(From July 2018)

I. Academic Qualifications: Ph. D (Jadavpur University) 1997  
Title of Thesis: "*On classical and Quantum nonlinear systems in relation to Yang-Baxter equation*"

- M. Sc (Physics), (Jadavpur University) 1990.
- B.Sc (Physics Honours) Jadavpur University 1988.

II. Teaching Experience:

- 18 years of Undergraduate teaching in Surendranath College, Kolkata,
- One year of Post graduate teaching in Assam University, Silchar during 2000-2001.

Undergraduate Courses taught: Mathematical Methods of Physics, Classical Mechanics, Electrodynamics, Quantum Mechanics.

Post-Graduate Courses taught: Classical Mechanics, Quantum Mechanics, Mathematical Methods, Quantum Field theory

III. Research Interests:

- Classical and Quantum Integrable systems,
- Nonlinear ODEs / PDEs
- Nonlinear dynamical systems.

No. of Ph. D candidates Co-supervised: 2

• Ms. **Supriya Mukherjee**, (2006). The title of her thesis was “*On the properties of Quantum and Classical Solitons*”

• Mr **Barun Khanra** (2014) for thesis “*A study of certain properties of nonlinear ordinary differential equations*”

IV. Publications:

A. Books: “**Quantum Integrable systems**”, (co-author A Roy Chowdhury) Chapman and Hall/CRC Press, New York, 2004. (Research Notes in Mathematics: Vol. 435.)

B. Number of publications in refereed journals: **72**

**Selected List:**

1. Monotonicity of the period function of the Lienard equation of second kind.  
**A Ghose-Choudhury** and Partha Guha, *Qual. Theory Dyn. Syst.* (2017) 16(3) 609-621
2. The Jacobi Last Multiplier and isochronicity of Lie'nard type Systems.  
Partha Guha and **A Ghose Choudhury**, *Reviews in Mathematical Physics* **25** (6) (2013) 1330009 (31 pages)
3. Dynamical studies of Equations from the Gambier Family,  
Partha Guha, **A Ghose Choudhury** and Basil Grammaticos. *SIGMA* **7** (2011) 028 (15pp)
4. On the Jacobi Last Multiplier, integrating factors and the Lagrangian formulation of differential equations of the Painleve-Gambier classification.  
**A Ghose Choudhury**, Partha Guha and Barun Khanra, *J. Math. Anal. Appl.* **360**(2), (2009), 651-664
5. Analytical Bethe ansatz for the sine-Gordon system  
**A. Ghose Choudhury** and A. Roy Chowdhury, *Phys. Letts A*, **220**, (4-5), (1996), 205-212
6. On Bäcklund transformations of  $D_n$  type Toda Lattice,  
Barun Khanra and **A. Ghose Choudhury**, *Phys. Letts. A* **374** (2010) 4120-4127

