

Dr. Swapan Kr. Ghosh
Associate Professor
Department of Physics
KJR Government General Degree College
Mejia-722143, Bankura



Teaching Philosophy

“Physics education should emphasize conceptual clarity, mathematical rigor, and logical reasoning, enabling students to understand nature at its most fundamental level.”

Profile

Dr. Swapan Kumar Ghosh is an Associate Professor of Physics with more than **25 years of teaching and research experience**. His academic interests lie in **Nonlinear Dynamics, Soliton Theory, Hamiltonian Structures, and Plasma Physics**. He is actively involved in undergraduate honours teaching, academic administration, and research supervision, and has organized several national and international conferences in physics.

Contact Information

Address:

Ratanpally, Near Santiniketan Tourist Center,
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Academic Qualifications

- **Ph.D. in Physics** (2004), Visva-Bharati, Santiniketan
Title: Hamiltonian Structure of Higher Order Nonlinear Evolution Equations
- **M.Sc. in Physics** (1993), Visva-Bharati
Specialization: Elementary Particle Physics & Quantum Field Theory
- **B.Sc. (Honours) in Physics** (1991), Visva-Bharati
- **B.Ed.** (1995), Visva-Bharati
Method Subjects: Physics & Mathematics

Teaching Experience

- **KJR Government General Degree College**
Associate Professor of Physics (Nov 2025 – Present)
 - **Durgapur Government College**
Associate Professor (Oct 2020 – Nov 2025)
Assistant Professor (Apr 2015 – Sep 2020)
 - **Darjeeling Government College**
Assistant Professor (Oct 2010 – Apr 2015)
 - **Saldiha College**
Assistant Professor (Oct 2008 – Oct 2010)
 - **Visva-Bharati**
Assistant Lecturer (Jun 1998 – Sep 2008)

Teaching Level: Undergraduate (Honours) and School Education

Research Interests

- Nonlinear Dynamics and Integrable Systems
- Soliton Theory and KdV-type Equations
- Hamiltonian and Bi-Hamiltonian Structures
- Variational and Inverse Variational Problems
- Plasma Physics and Nonlinear Evolution Equations

Publications

Dr. Ghosh has published **15+ research papers** in reputed national and international journals including:

- *Physical Review E*
 - *Physica Scripta*
 - *Pramana – Journal of Physics*
 - *Journal of Mathematical Physics*
 - *Nonlinear Dynamics*
 - *Science and Culture*
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Conferences & Academic Events

- Convener of multiple **National and International Conferences** on Nonlinear Dynamics (2013, 2014, 2017, 2019, 2023)
 - Delivered invited lectures on **Quantum Mechanics, Space Science, and Physics Education**
 - Presented research papers at national and international conferences across India
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Administrative Experience

- Head of the Department (HOD)
 - Member, IQAC
 - Teachers' Council Secretary
 - DPI Nominee for Career Advancement Programme Screening Committees
 - Departmental Coordinator, **DBT STAR College Scheme (Govt. of India)**
 - Convener and member of various academic, examination, NAAC, and admission committees
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Faculty Development Programmes

- Short Term Course on *Health and Stress: Problems and Remedies* (UGC-HRDC, University of Burdwan)
 - Short Term Course on *MOOCs, E-Content Development and Open Educational Resources* (UGC-HRDC, University of Burdwan)
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Awards & Honors

- National Scholarship (1991–1993)
 - Academic Excellence Scholarship (1989–1991)
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Computer Skills

Microsoft Office, PowerPoint, Internet Applications, **Mathematica, LaTeX**
