

Dr. Sorna Prava Barik

Lecturer | Department of Physics



Academic Profile

- **Highest Qualification:** M.Sc., Ph.D.
- **Designation:** Lecturer
- **Teaching Experience:** 3 Years
- **Courses Taught:** Undergraduate (UG)

Teaching & Pedagogical Practices

- Teaching using **SmartBoard and Projector** supported by **PowerPoint presentations**
- Effective integration of **ICT tools** in classroom instruction

Mentorship & Student Engagement

- **Mentor / Mentee Details:**
 - 2023–2024: 17 Students
 - 2024–2025: 18 Students
 - 2025–2026: 17 Students
- **Student Projects Guided:**
2024–2025: 15 Students

Research & Publications

Research Publications: Yes

Selected publications include:

- Finite-size spiky strings in $AdS_3 \times S^3 \times T^4$ with mixed fluxes, *JHEP*
- Spinning pulsating strings in $(AdS \times S)$ background, *European Physical Journal C*
- Perturbative analysis of pulsating strings, *European Physical Journal C*
- $SL(2, Z)$ invariant rotating strings in $AdS_3 \times S^3$, *European Physical Journal C*
- Finite size effect from classical strings in $AdS_3 \times S^3$ with NS–NS flux

Conferences & Seminars

- Kavli Asian Winter School (KAWS) on Strings, Particles & Cosmology, ICTS, Bangalore (2018)

- National String Meeting, NISER, Bhubaneswar (2017)
 - Student Talks on Trending Topics in Theory, Chennai Mathematical Institute (2017)
 - Advanced String School, Institute of Physics, Bhubaneswar (2017)
 - National String Meeting, IISER, Mohali (2015)
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Faculty Development Programme

- **Malaviya Mission Teacher Training Programme**, Utkal University
(14.02.2024 – 24.02.2024)
Topic: NEP 2020 – Orientation and Sensitization Programme
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Institutional Responsibilities

- IQAC – Time Table Management
 - Deputy Controller, +2 Examination Cell
 - Member, **Anti-Ragging Cell**
 - Professor I/C, **College Website**
 - Professor I/C, **Innovation & Incubation Centre**
 - Member, **Yoga Club**
 - Member, **Student Progression Committee**
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Additional Information

- **Books Published / Reviewed:** Nil
- **Research Projects / Grants:** Nil
- **Awards / Recognitions:** Nil