

ACADEMIC PROFILE



Prithwish Dutta

Assistant Professor in Physics (W.B.E.S.)

M.Sc., NET

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- **Specialization:** Condensed matter physics
- **Date of joining in this college:** 19.02.2015
- **Total teaching experience in college level:** 11 years
- **Area of research:** topological insulator, quantum matter, Ising model.
- **List of publications:**

A. Published papers in Journals:

1. “Prominent metallic surface conduction and the singular magnetic response of topological Dirac fermion in three-dimensional topological insulator Bi_{1.5}Sb_{0.5}Te_{1.7}Se_{1.3}”, P. Dutta, A. Pariari, P. Mandal, *Scientific Report July*, 2017, Vol 7, Page : 4883. [ISSN: 1098-0121].
2. “Probing the Fermi surface of three-dimensional Dirac semimetal Cd₃As₂ through the de Haas–van Alphen technique”, A. Pariari, **P. Dutta, P. Mandal**, *Physical Review B (Peer-review) April*, 2015, Vol 91, Page: 155139. [ISSN: 2045-2322].
3. “Anomalous thermal expansion of Sb₂Te₃ topological insulator” P. Dutta, D. Bhoi, A. Midya, N. Khan, P. Mandal, S.S. Samatham, V. Ganesan, *Applied Physics Letter* 100, 251912 (2012).

➤ **Participation in OP/RC/FIP/FDP:**

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Program	UGC-HRDC, Osmania University, Hyderabad	01.03.2019 to 30.03.2019	UGC
Refresher Course in Physics	UGC-HRDC, Allahabad University,	21.11.2020 to	UGC

GOVERNMENT GENERAL DEGREE COLLEGE, SINGUR

	Prayagraj	04.12.2020	
Refresher Course in Environment Studies	UGC-MMTTC, Sambalpur University	24.02.2026 to 09.03.2026	UGC
SWAYAM –NPTEL FDP	SWAYAM	Jan 2026 to April 2026	NPTEL
