

ACADEMIC PROFILE



DR. PIYALI BHARA

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

M.Sc., Ph.D.

Email: piyalibhara90@gmail.com

- **Specialization:** Applied Mathematics
- **Date of joining in this college:** 04.02.2016
- **Total teaching experience in college level:** 10+ years
- **Area of research:**

Title of Ph.D. thesis (if any): Study on some Astrophysical objects in different dimensional space-time.

- **Research guidance (if any):** One [I have acted as a co supervisor of [Ms. Somi Akhtar](#) [Index No.: 37/20/Maths./27] of Department of Mathematics, Jadavpur University, Kolkata who has successfully awarded the Ph.D degree on 22 th April, 2025. The title of the thesis is '*A Theoretical Exploration of Compact Star, Black holes and Wormholes*'. Prof. (Dr.) Farook Rahaman, Dept. of Mathematics, J.U., Kolkata-700032 acted as the supervisor of Ms. Somi Akhtar.]

- **Research projects [completed / ongoing] (if any):** One

I have successfully completed one minor research project funded by Department of Science & Technology and Biotechnology, Government of West Bengal.

- **Title of the Project:** Comparative study between General Relativity and modified gravity by modelling compact objects and wormhole
- **Duration:** 2 years (October, 2021 - September 2023)
- **Amount Sanctioned (Rupees) :** Rs. 1,60,000/-

- **List of publications:**

A. Published papers in Journals:

Total publication in scopus indexed journals: 90

The detail list of the journal can be found in the following google scholar link

<https://scholar.google.com/citations?user=Tx5VWx4AAAAJ&hl=en>

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B. Published papers in Seminars/Symposia/Conferences: NIL

C. Published Books / Chapters in Books: NIL

D. Participation in Seminars/Symposia/Conferences/Workshops:

Title of the invited lecture /paper presented (oral/poster)	Title of Conference /Seminar with date	Organized by	Level
Search of wormholes in different dimensional non-commutative inspired space-time with Lorentzian distribution	Emerging Trends in Physics of Fluids & Solids February 27-28, 2013	Dept. of Mathematics, Jadavpur University, Kolkata 700 032	National

➤ **Participation in OP/RC/FIP/FDP:**

Name of the Course	Place	Duration	Sponsoring Agency
111 th Orientation programme	UGC HRDC, Burdwan University	04/09/2018 to 01/10/2018	UGC
Refresher Course in Application of Nano Sciences in modern day research and technology	UGC HRDC, Burdwan University	25.06.2019 to 08.07.2019	UGC
Refresher Course in Environmental Sciences	UGC HRDC, Kumayun University, Nainital	12.08.2022 to 27.08.2022	UGC
MOOCs course: Advanced Linear Algebra	Online (Swayam)	January 2026 to April, 2026 (12 weeks)	AICTE

➤ **Membership of Learned Societies/ Editorial Boards, etc. (if any):**

1. Member of the editorial board of *Current Indian Science* (By Bentham Science) under **Astronomy and Astrophysics division**
ISSN:2210-299X (Online) ISSN:2210-3007 (Print).

2. **Patents (if any):** Nil

3. **Awards (if any):**

- Qualified Joint CSIR-UGC Test for Junior Research Fellowship and Eligibility for Lectureship (NET) in 2012 (*All India Rank-CSIR-JRF 79*)

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- Qualified GATE examination in Mathematics in 2012 (*All India Rank-13*)
- Qualified JAM examination in Mathematics in 2010 (*All India Rank-20*)
- 4th position in Mathematics Honours in Calcutta University in 2010.
- Awarded Prof. K.K. Mukherjee Memorial Prize 2011 by Serampore College Teachers' Association for securing highest marks in Mathematics Honours Examination 2010 in Serampore College.
- I have been selected as Visiting Associate of the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India from 2018 to 2027.

4. Other notable activities (if any):

I have been placed among **the top 2% scientists of the world** according to the survey by researchers from **Stanford University, USA** in Nuclear & Particle Physics which has been published in a reputed international journal, PLOS Biology in collaboration with Elsevier BV for consecutive six years from 2020, 2021, 2022, 2023, 2024, 2025, 2026 For single year data, and for in 2025 for career long data.
