



# BARASAT GOVERNMENT COLLEGE

## TEACHER'S PROFILE

*DR PRADIP MUKHERJEE, DEPARTMENT OF PHYSICS*

- **DESIGNATION** : Professor & Head of the Department
- **QUALIFICATION** : M.Sc., Ph.D.
- **DATE OF JOINING THE SERVICE** : Apr 21, 1989
- **DATE OF JOINING THE INSTITUTION** : May 18, 2011
- **ADDRESS FOR COMMUNICATION** : Department of physics, Barasat Government College
- **PHONE NO** : 9433572865
- **EMAIL ADDRESS** : mukhpradip@gmail.com
- **SPECIALIZATION** : High Energy physics
- **TEACHING EXPERIENCE** : PG: 21 Years & UG: 32 Years
- **COLLEGE SERVED** : (1) Birasat Government College 1989 to 1995  
(2) Acharya Brojendranath Seal College 1995 - 2000  
(3) Presidency College 2000 - 2011  
(4) Barasat Government College 2011 - till date

<p>➤ <b>ACADEMIC AND ADMINISTRATIVE EXPERIENCE</b></p>	<p>: I did my Ph. D from Jadavpur University (2000), Carried research in theoretical physics from 1995 - till date. Three Research Scholars (all supported by C.S I. R ) obtained Ph. D under my Supervision , one sole and two as joint supervisor, one part time Scholar has finished thesis works (Joint supervisor). Now supervising the researches of one part time scholar and one full time CSIR fellow ). All my present or past students are NET qualified.</p>
<p>➤ <b>TOPICS TAUGHT</b></p>	<p>: I have taught Mathematical Methods of Physics, Mechanics, Electrodynamics , Thermodynamics (classical and statistical ), Solid state physics, Atomic and Molecular physics , Quantum Mechanics at different times in the departments I served.</p>
<p>➤ <b>AREA OF RESEARCH &amp; INTEREST</b></p>	<p>: All the branches of theoretical physics research is within my interest. Specifically I have published results from mesoscopic SSP, PT symmetric theories, noncommutative field theories and gravity, Higher derivative field theories, nonrelativistic diffeomorphism. Now I am doing research in the fracton gauge</p>
<p>➤ <b>ONGOING PROJECT DETAILS</b></p>	<p>: NONE</p>
<p>➤ <b>AWARD RECEIVED</b></p>	<p>: NONE</p>
<p>➤ <b>PATENT DETAILS</b></p>	<p>: NONE</p>
<p>➤ <b>EXTRACURRICULAR ACTIVITIES</b></p>	<p>: NONE</p>
<p>➤ <b>CAREER PROFILE</b></p>	<p>: I have studied Physics Honours at Presidency College Kolkata (1979 -1982 session), M.Sc in pure physics (1982 - 84 ) Sessions at Science College (CU). Then I joined SINP kolkata, I am a post M.Sc associate of SINP (1987). Note that in CU there was a problem in our time. So our UG results were published in 1983 and M. Sc. results in 1985. I have secured 67.5 % marks in UG final and was ranked 13th. In PG I got 74.1% in the final examination and was ranked 4th.</p> <p>I was never abroad but presented papers in the International meet on gravitation at Pune (2007), several national meets on High Energy Physics and gravity (2010). In all the conferences I contributed by oral presentation. Further I have delivered talks on my research at SINP (2000), SNBNC, IUCAA (2009), Chandigarh University (2017) and Presidency University.</p> <p>I am a reviewer of Physical Review D (American Physical Society), EPJC, MPLA , IJMPA and other international journals.</p>
<p>➤ <b>ACADEMIC LINK</b></p>	<p>: 1.<a href="https://inspirehep.net/literature?sort=mostrecent&amp;size=25&amp;page=1&amp;q=f%20ea%20%20mukherjee%2C%20pradip&amp;ui-citation-summary=true">https://inspirehep.net/literature?sort=mostrecent&amp;size=25&amp;page=1&amp;q=f%20ea%20%20mukherjee%2C%20pradip&amp;ui-citation-summary=true</a>.  2.<a href="https://scholar.google.com/citations?user=2irROMQAAAAJ&amp;hl=en&amp;oi=ao;">https://scholar.google.com/citations?user=2irROMQAAAAJ&amp;hl=en&amp;oi=ao;</a>  3.<a href="https://www.researchgate.net/profile/Pradip-Mukherjee">https://www.researchgate.net/profile/Pradip-Mukherjee</a>.</p>

## PUBLICATION

### JOURNAL PUBLICATION :

- (1) R. Banerjee, S. Moinuddin and P. Mukherjee,, 'New approach to the study of nonrelativistic bosonic string in flat spacetime', Physical Review D, American Physical Society, May, NA
- (2) R. Banerjee, A. Mitra and P. Mukherjee,, 'Localization of the Galilean symmetry and dynamical realization of Newton-Cartan geometry', Class. Quant. Grav. **32**, no.4, 045010 (2015), 2015, NA
- (3) P. Mukherjee and A. Saha, 'A Note on the noncommutative correction to gravity', Phys. Rev. D **74**, 027702 (2006), 2006, Not required

➤ **BOOK PUBLICATION** :

- (1) Pradip Mukherjee and Barun Roychowdhury, 'Uchha Madhyamic Podarthabigyan', Modern Publishers New Delhi, Not shown, Not shown