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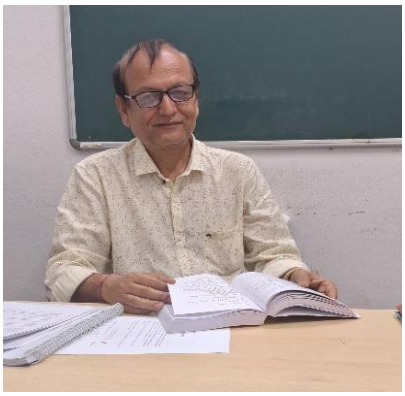

Expertise: Applied Mathematics, Nonlinear Dynamics, Plasma Physics, Differential Equations.

Education:

Bachelor of Science (1988), Bankura Christian College, Burdwan University	Master of Science (1991), IIT Kharagpur.	Ph. D. (1996), ISI Kolkata, Jadavpur University

Honours:

Visiting Scientist (2006) East West University, Bangladesh	Visiting Scientist (2007) POSTECH, South Korea	Post Doc Scientist (2009) University of Malaya, Malaysia	Visiting Scientist (2010) University of Malaya, Malaysia	Visiting Scientist (2018) East West University, Bangladesh

Professional Experience:

- Professor-in-charge, Centre for Mathematics Education, Visva-Bharati (2017-2023)
- Head of the Mathematics Department , Visva-Bharati (2015-2017)
- Professor at Visva-Bharati (2009-Present)
- Associate Professor at Visva-Bharati (2006-2008)
- Reader at Visva-Bharati (2002-2005)
- Senior Lecturer at Visva-Bharati (2000-2002)
- Lecturer at Visva-Bharati (1999-2000)
- Lecturer at Bhairab Ganguly College, North 24 Paraganas (1997-1999)

• Scientist B, Defence Research & Development Organisation, Lonavla, Pune (1995-1997).

Research Project:

1. Nonlinear and Computational Mathematics (2015), Coordinator, Amount-13950000.

2. Nonlinear Structure in Quantum Plasma (2013), PI, Amount-655006.

3. Large Amplitude Solitary Waves and Double Layers in Astrophysical and Dusty Plasma (2003), PI, Amount-752001.

1. Text Books: 07

01. Uchchotaro ganit samagro [Volume-1], Bholanath Sen and **Dr. Prasanta Chatterjee,** New Central Book Agency (p) Ltd. (2006).

02. Uchchotaro ganit samagro [Volume-2], Bholanath Sen and **Dr. Prasanta Chatterjee**, New Central Book Agency (p) Ltd. (2008).

03. A Textbook of HIGHER MATHEMATICS [Volume I], Dr. Bholanath Sen, **Dr. Prasanta Chatterjee**, New Central Book Agency (p) Ltd. (2009).

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06. Waves and Wave Interaction in Plasmas, P. Chatterjee, K. Roy, U. N. Ghosh (2023), **World Scientific.**

07. Nonlinear Partial Differential Equations: Applications and Modern Approach, P. Chatterjee, K.Roy, L. Mandi (2025) (In Press).

2. Popular Science Book:

আপেক্ষিকতাবাদ ও আইনস্টাইন (Relativity and Einstein) (with Prof G Kar, Dr Swarup Poria and Dr Samir Kukri)(2015).

3. Poetry Books:

1. একা নদী [The River Alone] (২০১৩),
2. সহজ পুরাণ [Easy Testament] (২০১৮).

4. Popular Science Article : 04

1. K. Roy and **P. Chatterjee**, (2015), Dusty Plasma in Space, Science Reporter, 52 (05), 30.
2. K. Roy and **P. Chatterjee**, (2018) Solitary waves and Solitons, Dream 2047, 21(3), 31.
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4. **P. Chatterjee,** (2022), Mathematics Defining Life, Science Reporter, 59(11),50-51.

5. List of Publications of Prof. Prasanta Chatterjee

Number of research papers published in journals **: 217**

Number of research papers published in proceedings of International Conferences **: 07**

Number of Popular Science Articles **: 04**

Citation – 4302
H-index- 37
i-10 index- 122

Impact factor of few journals:

Applied Computational Mathemaics-2.305
Astrophys & Space Sci – 1.83
Brazilian Journal of Physics-1.326
Canadian Journal of Physics-1.2
Chaos: An Interdisciplinary Journal of Nonlinear Science -3.0
Chaos, Solitons and Fractals-7.8
Communications in Theoretical Physics-3.1
Contributions to Plasma Physics-1.4
Earth, Moon, and Planets-0.9
European Physical Journal D-1.8
IEEE Transactions on Plasma Science-1.368
Indian Journal of Physics-2.0
International J Modern Phys B-1.772
International Journal of Applied and Computational Mathematics- 1.767
Journal Fizik Malaysia- 0.654

Journal of Plasma physics-2.691
Journal of Theoretical & Applied Physics-1.918
Nonlinear Dynamics- 5.741
Physics of Fluids-4.64
Physics of Plasmas- 2.14
Physics Letters A -2.6
Physica Scripta-2.9
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01. P. Chatterjee and R. Roychoudhury (1994), Effect of ion temperature on large amplitude ion acoustic solitary waves in relativistic plasma , Phys. *Plasmas* Vol-1, pp 2148.

02. P.Chatterjee and R. Roychoudhury (1995) ,The effect of finite ion temperature on solitary waves in a plasma with an ion beam. , *Phys. Plasmas* Vol-2, pp 1352.

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04. P. Chatterjee and R. Roychoudhury(1995),Ion acoustic soliton in an electron beam plasma, *Z. Naturforsch* Vol-51(a), pp 1002.

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6. List of Research Scholars :

(i) Awarded Ph. D Degree :

Sl. No.	Name of the Student	Title of the thesis	Year
1	Brindaban Das	Studies on Existence and Properties of solitary waves in plasma	2008
2	Bholanath Sen	Studies on some problems of nonlinear waves in plasma	2010
3	Kaushik Roy	Studies on some problems in non linear waves in dusty plasma and quantum plasma	2011
4	Tarak Nath Saha	Some problems on nonlinear structures in magnetized plasma	2012
5	Anindita Tarai	Studies on some problems on Chaos synchronization, chaos control and its applications	2012
6	Uday Narayan Ghosh	Head on collision of solitary waves in plasmas	2013
7	Sanjib Kumar Kundu	Studies on some problems of nonlinear wave propagation in plasma	2013
8	Malay Kr Ghorui	Head-on collision of solitary waves in quantum plasmas.	2014

9	Ganesh Mondal	Some studies of dressed solitons in dusty plasma and quantum plasmas.	2014
10	Debkumar Ghosh	Spherical and cylindrical solitons and shocks in plasma	2014
11	Utpal Samanta	Generation and interaction of solitary waves and shocks in magnetized plasma	2014
12	Pankaj Mondal	Computational study on nonlinear structures in plasma	2015
13	Akshay Mondal	Nonlinear Dynamics of Eco-epidemiological systems with special emphasis on food sources and food preferences	2015
14	Asit Saha	Bifurcations and interactions of nonlinear waves in plasmas.	2016
15	Nikhil Pal	Mathematical studies of ecological models with omnivory and switching	2016
16	Tushar Kanti Das	Dynamic behavior of waves in plasma	2018
17	Sourav Choudhury	Nonlinear structure in spin ½ quantum plasma and semi conductor quantum plasma	2018
18	Tapas Kumar Maji	Studies on collisions of solitons in plasmas	2019
19	Rustam Ali	Quasiperiodicity, chaos and soliton turbulence in plasmas	2022
20	Niranjan Paul	Effects of damping and externally applied periodic force on solitary waves in plasma	2022
21	Eusob Ali Ahmed	Statistical Analysis in Mathematics Education: Comparative Analysis	2023
22	Laxmikanta Mandi	Chaos and Hyperchaos in Plasmas	2023
23	Anindya Paul (as co-guide)	Studies of some evolution equations in planer and non-planer geometry	2024

Working for Ph.D. :

SL. No.	Name	Proposed Title of the thesis	Year of joining
1.	Snehalata Nasipuri	Multisingular soliton, Lump, Breather and applications	2020
2.	Nanda Kanan Pal	Lax Pair , Darboux Transformation and solutions of some Fractional Differential Equations with and without noise.	2022
3.	Saugata Dutta	Fractal solution of some coupled differential equations	2022
4.	Dipan Kumar Saha	Solution of some autonomous and non-autonomous nonlinear PDE by Darboux Transformation	2022
5.	Suvojit Laha	Dynamics of Predator-prey model with fear effect	2022
6.	Jayshree Mondal	Collisions of some non-linear structures in plasma	2023