

## Personal Profile

**Name** Utpal Kumar Samanta  
**Designation** Associate Professor  
**Date of birth** 8<sup>th</sup> May,1973  
**Educational qualification** MSc, MPhil, PhD  
**Permanent address** Flat No – 10, TITAS, Group Housing,  
Bidhannagar, Durgapur, WB  
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**Date of joining this institution** 29<sup>th</sup> November,2007



**Past services** Krishnsrampur School (H.S),  
Budbud,Paschim Burdwan  
**Areas of teaching** Linear Algebra, Analysis, Computer  
**Vidwan Portal ID** Vidwan-id:284226  
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### FACULTY DEVELOPMENT PROGRAMME

Year	Name of the course	Dates	Name of the University
2011-2012	Orientation Course	04/03/2011 to 31/03/2011	HRDC, B.U
2012 - 2013	Refresher Course on ICT	10/03/2012 to 30/03/2012	HRDC, B.U
2015 – 2016	Summer School	10/06/2016 to 30/06/2016	HRDC, Ranchi University
2015 - 2016	Workshop in c Programming	22/02/2016 to 28/02/2016	B.U.
2018 - 2019	Short-term Course	12/03/2019 to 18/03/2019	HRDC, B.U.
2020 -2021	Online Summer School	27/06/2020 to 06/07/2020	Presidency University

**Bifurcations of nonlinear ion acoustic travelling waves in the frame of a Zakharov-Kuznetsov equation in magnetized plasma with a kappa distributed electron**

Kumar Samanta U.; Saha A.; Chatterjee P.

**Article** Physics of Plasmas, Volume 20, Year 2013

**Bifurcations of dust ion acoustic travelling waves in a magnetized dusty plasma with a q-nonextensive electron velocity distribution**

Samanta U.; Saha A.; Chatterjee P.

**Article** Physics of Plasmas, Volume 20, Year 2013

**Head-on collision of electron-acoustic Korteweg-de Vries solitons in a magnetized quantum plasma**

Malay Kumar Ghorui ., Utpal Kumar Samanta ., Prasanta Chatterjee .,

**Article** Astrophysics and Space Science, Volume 348, Year 2013, Pages 89-97

**Bifurcations of dust ion acoustic travelling waves in a magnetized quantum dusty plasma**

Samanta U.K.; Saha A.; Chatterjee P.

**Article** Astrophysics and Space Science, Volume 347, Year 2013, Pages 293-298

**Head-on collisions of ion-acoustic Korteweg-de Vries/modified Korteweg-de Vries solitons in a magnetized quantum electron-positron-ion plasma**

Malay Kumar Ghorui ., Utpal Kumar Samanta ., Prasanta Chatterjee .

**Article** Astrophysics and Space Science, Volume 345, Year 2013, Pages 273-281

**Soliton and shocks in pair ion plasma in presence of superthermal electron**

Samanta U.K.; Chatterjee P.; Mej M.

**Article** Astrophysics and Space Science, Volume 345, Year 2013, Pages 291-296

**Head-on collisions of two types of dust-acoustic solitons in a magnetized quantum plasma**

Ghorui M.K.; Samanta U.K.; Maji T.K.; Chatterjee P

**Article** Astrophysics and Space Science, Volume 352, Year 2014, Pages 159-169

Title of the Seminar/Conference/Workshop	Title of the Paper	Name of the Host Institution	Date(s)
Emerging Trends in Mathematics. (National)	Soliton and Shock in pair-ion plasma in presence of Superthermal Electron	Vidyasagar University	19/12/12 to 20/12/12
Nonlinear Dynamics and its application in Physical and Biological Sciences. (International)	A ZK equation in magnetized plasma with kappa distributed electron and its instability analysis	Darjeeling Govt. College	01/11/2014 to 03/11/2014
1 <sup>st</sup> Regional Science and Technology Congress	Overtaking collision of two dust acoustic soliton in a dusty plasma with nonthermal electrons	Govt. of WB & Bankura Christian College	07.11.2016 to 08.11.2016
Security, Migration and Environment... (International)	Threats to Environmental security.....	Kazi Nazrul University	12 <sup>th</sup> December, 2019
Environment and Literature: Depicting... (International)	Global Crisis for Environment.....	Galsi Mahavidyalaya	6 <sup>th</sup> December, 2019
PHYSICON-2019 (National)	Today's healthcare....	Bankura Christian College	15 <sup>th</sup> to 17 <sup>th</sup> Nov., 2019

## RESEARCH PROJECTS

Name of the Research Project: **MRP ( Studies on large amplitude nonlinear structures )**

Funded by: **UGC**

Amount sanctioned: **Rs.1,17,500/-**

Memo No. and Date: **2010(No. F.PSW -005/10-11(ERO) dated 20.10.2010)**

Date of Completion: **March, 2015**

## RESEARCH GUIDANCE

- Name of the candidate: **Partha Mandal**
- Registration No: **BKU/PhD/MATH-02/2021-22/10-22**
- Date of Registration: **04/08/2022**
- Area of Research: **Head-on Collision of solitons in plasma: in frame-work of Kadomtsev-Petviashvili (KP) equation**
- Awarded/Ongoing: **Ongoing**