


# Personal Profile

<b>Name</b>	<b>DR BIPUL SARKAR</b>	
<b>Designation</b>	Associate Professor in Physics	
<b>Date of birth</b>	07-07-1975	
<b>Educational qualification</b>	M.SC, B.Ed, Ph.D	
<b>Permanent address</b>	Sanghatapara, Rampurhat, Birbhum, West Bengal, 731224	
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<b>Date of joining this institution</b>	02-12-2008	
<b>Past services</b>	Assistant Teacher in Physical Science, Kusumba High School, Kusumba, Birbhum	
<b>Areas of teaching</b>	Solid state Physics, Statistical Mechanics, Optics, Quantum Mechanics	
<b>Vidwan Portal ID</b>	288348	
<b>ORCID ID</b>	NIL	
<b>Google Scholar ID</b>	4x2U-xMAAAAJ	
<b>Research Gate ID</b>	NIL	

## FACULTY DEVELOPMENT PROGRAMME

- 1) 80<sup>th</sup> Orientation Programme, conducted by the Academic Staff College, The University of Burdwan, from 14th May to 10th June, 2011.
- 2) 13th Refresher Course, conducted by the Academic Staff College, The University of Burdwan, from 16th January to 5th February, 2013.
- 3) Refresher Course, conducted by the Academic Staff College, The University of North Bengal, from 01 November to 21 November 2016.
- 4) Refresher Course, conducted by the Academic Staff College, The University of North Bengal, from 01 March to 21 March 2019.

**List of research papers Accepted or published in National / International journals:**

- (i.) "Optical generation of millimeter and submillimeter-waves through optical sideband injection locking of semiconductor laser," IEEE Photonics Technology Letters, vol. 14, pp. 1611-1613, November 2002.
- (ii.) "Detection of optical FM-SCM signal through coherent carrier reconstruction," Journal of Optical Communication, vol. 25, no. 2, March-April 2004.
- (iii.) "Analysis of the optical limiter-discriminator demodulating the optical FM-SCM signals," Journal of Optical Communication, vol. 24, no. 3, pp. 97-101, May-June 2003.
- (iv.) "A fiber-optic mm-wave radio using overdriven Mach-Zehnder interferometric modulator," Journal of Optical Communication, vol. 24, no. 3, pp. 112-115, May-June 2003.
- (v.) "A cascaded pair of traveling wave Mach-Zehnder interferometric modulators with a relative delay in signal feeding," Journal of Optical Communication, vol. 24, no. 5, pp. 162-164, September-October 2003.
- (vi.) "Phase noise reduction of a FB semiconductor laser through injection locking," International conference on Broad Band Optical fiber Communication and Technology, BBOFCT-2001, Jalgaon, Maharashtra, December 5-7, 2001.
- (vii.) "Subcarrier-multiplexed fiber-optic mm-wave radio using sideband injection locking of semiconductor laser," International conference on optical communication and Networks, pp. 220-222, November 11-14, 2002, Singapore.
- (viii.) "Reduction of CTB distortion in parallel combination of square-law Mach-Zehnder interferometric modulators in fiber-optic mm-wave radio," International conference on Optoelectronics, fiber-optics and photonics. (PHOTONICS-2002), TIFR and IIT Bombay, December 16-18, 2002.
- (ix.) "SCM signal modulation in a bias-correlated cascaded pair of M-Z light intensity modulators in presence of a relative delay in signal feeding," National conference on Radio Science (INCURSI-2003). National Physical Laboratory, New Delhi, November 27-29, 2003.
- (x.) "A Simple Scheme for Generation of mm-waves Signals by Optical Technique" Wesleyan Journal of Research. Vol. 2, No. 2, pp 6-8, June 2009.
- (xi.) "Higher order antibunching for pump mode in stimulated Raman scattering" Wesleyan Journal of Research Vol. 5, No. 1, pp 8-14, June 2012.
- (xii.) "Probable causes of achievement difference at Secondary level of rural area with respect to urban area in North Bengal: A Comparative Study "Paripex-India Journal of Research, Vol. 04, Issue 04, pp 14-17, April 2015.

- (xiii.) “Sum and Difference squeezing in Second Harmonic Generation” International Research Journal of Basic And Applied Sciences, Vol. 1, Issue 2, pp 39-42, 2016.
- (xiv.) Computational and Docking Studies of 5,6-dihydroxy-7,8, 4-O-trimethoxyflavone : A  $\alpha$ -Glucosidase Inhibitory Constituent from *Limnophilalindica*” Journal of Chemistry and Chemical Science (March 2018) (Pages 548-561)
- (xv.) “Quantum Entanglement and unbreakable Security in the near future” IOSR Journal of Engineering (IOSRJEN) Vol. 09, March 2019, (Pages 37-41).
- (xvi.) “Quantum phase fluctuations of the radiation fields coupled to the Raman nonlinear medium”, Wesleyan Journal of Research, Vol 13 (June 2020).

#### BOOKS / BOOK CHAPTERS / MONOGRAPHS

Sl. No	Title of the publication	Page no. and year of publication	Name of the publisher	ISSN/ ISBN
1.	Tagore’s Philosophy on Peace Education and Present Problems at Santiniketan	Page No. : 87-94 Year of Publication: 2020	N.B. Publications (Ghaziabad-201102, India)	9789389234848

#### POPULAR ARTICLES : NIL

#### PAPER PRESENTATION/ PARTICIPATION: CONFERENCES/SEMINARS /SYMPOSIA /WORKSHOPS

Sl. No	Conferences/Seminars/ Symposia	Sponsoring Agency	Institutions	Date
1.	A Panel Discussion on “Materials Research with Frontier State-of-art Facilities”	Research and Academic Activity promotion authorities under different ministries of UNION REPUBLIC OF INDIA	Dept. of physics, Visva Bharati University, Santiniketan.	17-18 <sup>th</sup> January, 2009.
2.	National Seminar on “Biodiversity Conservation Scenario in India”.	U.G.C.	Bankura Christian College, Bankura, West Bengal.	September-24 <sup>th</sup> -25 <sup>th</sup> , 2010.

3.	National Seminar on “Exploitation of Biofertilizers and Biopesticides for Sustainable Development of Modern Agriculture”.	U.G.C.	Bankura Christian College, Bankura, West Bengal.	February-18th-19th , 2011.
4.	National Conference on “Nonlinear Physics and its Application (CNPA-13)”	UGC	Department of Physics, Darjeeling Govt. College,  Darjeeling, West Bengal.	November 26-28, 2013.
5.	One Day UGC-CPE sponsored workshop on “ Reduction of Stress of People Associated Directly with Our Existing Education System at UG and PG Levels”	UGC	Bankura Christian College, Bankura, West Bengal.	January 10, 2014.
6.	One-Day Seminar on “ Modern Library in the Perspective of NAAC”	UGC	Library, Bankura Christian College, Bankura, West Bengal.	3 <sup>rd</sup> March, 2015.
7.	National Seminar on “Recent Trends in Applied Sciences and Humanities and its utility in Engineering and Environment (RTASH-2016)”.	DIATM, Durgapur	Department of Applied Sciences and Humanities, DIATM, Durgapur, West Bengal.	February 19-20, 2016.
8.	National Seminar on “Environmental Education – A Need of the Day”	UGC	Departments of Chemistry, Physics, Mathematics, Geography & Economics, Bankura Zilla Saradamani MahilaMahavidyapith, Bankura, West Bengal.	September 23-24, 2016.
9.	National Seminar on “Demonetization and Its Effects on Economy &	CPE	Bankura Christian College , Bankura, West Bengal	January 25, 2017

	Business”			
10.	National Seminar on “Personality Development and Communication Skill: Tools for the Present Era”	UGC	K. D. College of Commerce & General Studies, Midnapore, Paschim Midnapore, W.B.	March 3-4, 2017.
11.	National Seminar on “Reaching the Unreached Through Science and Technology”	UGC	Dept. of Physiology Bankura Christian College, Bankura.	February 17 <sup>th</sup> , 2018.
12.	National Seminar on “Recent Trends in Chemical Science Research and Applications (RTCSRA-2019).”	UGC	Dept of Chemistry, Siksha-Bhavana, Visva-Bharati, Santiniketan,	September 13, 2019
13.	National Seminar on “Frontiers of Material Science and Photonics: Issues and Developments (NCFMSP-2020)”	UGC	Dept of Physics, Sidho-Kanho-Birsha University, Purulia-723104.	March 5-6, 2020.

## RESEARCH PROJECTS

- Name of the Research Project: “Nonclassical effects of various optical systems: squeezing, antibunching and intermodal entanglement”
- Funded by: : UGC
- Amount sanctioned : Rs. 1,62,000/-
- Memo No. and Date : PSW-006/14-15 (ERO), ID No. WB1-007, Dt.02/02/2015
- Date of Completion : 03/02/2017

## RESEARCH GUIDANCE:

NA

- Name of the candidate: **NIL**
- Registration No:
- Date of Registration: dd/mm/yy
- Area of Research: Title

- Awarded/Ongoing:

#### AWARD/RECOGNITION/MEMBER OF BOARD OF STUDIES/ACADEMIC ACTIVITIES

Member of Academic/Professional Association:

- International:
- National:
  1. Life Member and Editor , *Wesleyan Journal of Research* (ISSN No. 0975-1386).
  2. Life Member of IAPT.

#### COMMUNITY WORK/SOCIAL ACTIVITY

#### ANY OTHER

**Other Academic/Administrative Assignments:**

- As an Expert, Examiner, Scrutinizer, or in any other role related to recruitment in academic position as and when asked by the authority (WB Govt.).