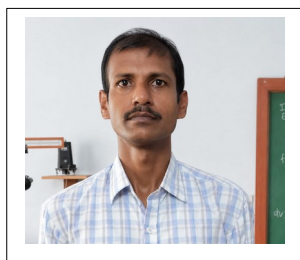


ACADEMIC PROFILE



DR. BISHWAJIT PAUL

Associate Professor in Physics (W.B.E.S.)

M.Sc., Ph.D.

Email: bishwajitkgc@gmail.com

- **Specialization:** Radio Physics and Electronics
- **Date of joining in this college:** 09.01.2025
- **Total teaching experience in college level:** 17 years
- **Area of research:** Nonlinear dynamics and chaos
- **Title of Ph.D. thesis (if any):** “Studies on the dynamical behavior of isolated and spatially extended digital phase-locked loops and related problems”.
- **Research guidance (if any):** Nil
- **Research projects [completed / ongoing] (if any):** Nil
- **List of publications:**

A. Published papers in Journals:

1. “Bifurcation, Chaos and their Control in a time-delay digital Tanlock Loop”, T. Banerjee, **B. Paul** and B. C. Sarkar, *International Journal of Bifurcation and Chaos*, 2013, 23 (8), 1330029 (19pages) [ISSN 0218-1274; IF: 2.836].
2. “Spatiotemporal dynamics of a digital phase-locked loop based coupled map lattice system”, T. Banerjee, **B. Paul** and B. C. Sarkar, *Chaos*, 2014, 24, 013116 [ISSN 1054-1500; IF: 3.642].
3. “Spatiotemporal Dynamics of a Network of Coupled Time-Delay Digital Tanlock Loops”, **B. Paul**, T. Banerjee and B. C. Sarkar, *International Journal of Bifurcation and Chaos*, May, 2016, Vol. 26, No. 5, 1650076 (17 pages) [ISSN 0218-1274; IF: 2.836].
4. “Chimera in digital phase-locked loops”, **B. Paul**, and T. Banerjee, *Chaos*, Jan, 2019, 29, 013102; American Institute of Physics. [ISSN 1054-1500; IF: 3.642].
5. “Nonlocal time-delayed feedback control of spatiotemporal patterns: Controlling a network of digital phase-locked loops”, **B. Paul** and T. Banerjee, *Nonlinear Dynamics*, Feb, 2019, Vol. 96; no. 2, pp 811–823 [ISSN 0924-090X; IF: 5.022].

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6. “Networks of coupled time-delay digital tanlock loops: chimera and other emergent spatiotemporal dynamics”, **B Paul**, and T Banerjee, *Nonlinear Dynamics*, Sept, 2020, Vol 101; pp 2343–2356, [ISSN 0924-090X; IF: 5.022].
7. “Time-delayed feedback control of spatiotemporal dynamics in a network of digital phase-locked loops”. **B Paul**, *Science and Culture*, Vol. 89, No. 11-12 Page 406-410, Nov-Dec 2023 [ISSN: 0036-8156].

B. Published papers in Seminars/Symposia/Conferences:

1. “Chaos and Bifurcation in a Time Delay Tanlock Loop”, T. Banerjee, **B. Paul** and B. C. Sarkar, *Proceedings of the International Conference on Laser, Material Science & Communication* (ICLMSC-2011), Department of Physics, The University of Burdwan, 7-9th December, 2011, 305-308 [ISBN 978-93-80813-14-1].
2. “Range Extension of a Time Delay Digital Tanlock Loop by Time-Delayed Feedback Control Method”, T. Banerjee, **B. Paul** and B. C. Sarkar, *Proceedings of the National Conference on Material Device and Circuit in Communication Technology* (MDCCT-2012), Department of Physics, The University of Burdwan, 6-7th February, 2012, 97-100 [ISBN 978-93-80663-36-4].

C. Published Books / Chapters in Books:

1. “Phase-Locked Loops: Structure, Functions and Applications. Chapter 4: Nonlinear Dynamics of Time-Delay Digital Tanlock Loop”. **B Paul** and T. Banerjee, *Nova Science Publishers (International)*, Sept’ 2020, [ISBN: 978-1-53618-338-2]

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
Chaos and Bifurcation in a Time Delay Tanlock Loop	Laser, Material Science and Communication (ICLMSC-2011), 7 th -9 th Dec, 2011	Department of Physics, University of Burdwan	International
Range Extension of a Time Delay Digital Tanlock Loop by Time-Delayed Feedback Control Method	Materials, Devices and Circuits in Communication Technology (MDCCT-2012), 6 th -7 th Feb, 2012	Department of Physics, University of Burdwan	National
Digital Phase-locked Loop Based Coupled Map Lattice System	Complex Dynamical Systems and Applications (CDSA-2016), 15 th -17 th Feb, 2016	Department of Mathematics, National Institute of Technology, Durgapur	International
Modeling of Complex Network of Digital Phase-locked Loops and the Emergent Spatiotemporal Patterns	Modern trends in Humanities, Science & Technology and Social Sciences for Sustainable Development (Web Seminar), 23 rd -24 th	A. P. C. Roy Govt. College, Himachal Vihar, Matigara, Siliguri-734010,	International

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	September 2021.	WB	
Spatiotemporal patterns in a network of digital phase-locked loops and their control by nonlocal time-delayed feedback technique.	Material Science, Nanomaterials and its applications in Biological Sciences (MSNBS-2023). 1 st , March 2023.	Department of Physics, Durgapur Government College, Durgapur – 713214.	National
Diverse chimera patterns in the networks of digital phase-locked loops.	Nonlinear Dynamics and its Applications in Physical and Biological Sciences (NDAPBS-23). 16 th -18 th , March 2023.	Department of Physics and the Department of Mathematics; Durgapur Government College, 713214.	International
Complex networks modeling with time-delayed digital tanlock loops and the emergent chimera patterns.	Recent Trends in Sciences. 28 th April 2023.	Fakir Chand College, Diamond Harbour-743331.	National

➤ **Participation in OP/RC/FIP/FDP:**

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Programme (91 st OP)	Academic Staff College, University of Burdwan	04 th to 31 st July, 2013	UGC
6 th Refresher Course on 'ICT'	Academic Staff College, University of Burdwan	26 th Nov to 16 th Dec, 2014	UGC
Refresher Course on 'Environment and Sustainability'	Human Resource Development Centre, the University of Burdwan	3 rd to 16 th Jan, 2020	UGC
Refresher Course on Nano-Science, Nano-Technology and its Application	Human Resource Development Centre, Burdwan University	1 st to 14 th Dec, 2022	UGC

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

➤ **Patents (if any): Nil**

➤ **Awards (if any): Nil**
