

Faculty Details

Title Dr.	First Name	RIMPI	Last Name	PAL KUNDU	Photograph
Designation	ASSISTANT PROFESSOR				
Address	A-14/10, SHYAM VIHAR, PHASE-II, NAJAFGARH, NEW DELHI- 110043				
Phone No Office					
Residence*					
Mobile*	9313499979				
Email	rimpipal.kundu@gargi.du.ac.in				
Web-Page					
Educational Qualifications					
Degree	Institution				Year
JRF(NET)-CSIR	-	MATICAL SCIEN	ICE)		2006, 2009
PhD	UNIVERSITY O				2016
MSc (APPLIED MATHEMATICS)	AGRICULTURE (UNIVERSITY O	F CALCUTTA)		2006
BSc (MATHS HONOURS)			, UNIVERSITY OF	CALCUTTA	2004
XII	THE ARMY PU	BLIC SCHOOL,	DHAULA KUAN		2001
X	THE ARMY PU	BLIC SCHOOL,	DHAULA KUAN		1999
Career Profile	l				

#1

Period: 19 Aug 2021 till now

Organization: GARGI COLLEGE, Siri Fort Road, University of Delhi,

Designation: Assistant Professor (AD-HOC) in the Department of Mathematics

#2

Period: 04 Feb 2020 - 18 Aug 2021

Even Semester (2019-2020), Odd Semester (2020-2021), Even Semester (2020-2021) till now

Organization: Atma Ram Sanatan Dharma College, University of Delhi, Dhaula Kuan

Designation: Assistant Professor (Guest) in the Department of Mathematics

#3

Period: 08/2019 till 12/2019 (Odd Semester(2019)

Organization: Netaji Subhash University of Technology, Dwarka, Sec-3
Designation: Guest Lecturer in the Department of Mathematics

Responsible for teaching $\mathbf{1}^{\text{st}}$ semester and $\mathbf{7}^{\text{th}}$ semester students.

#4				
Period:	07/2013- 09/2013			
Organization:	Rajdhani College, University of Delhi			
Designation:	Assistant Professor (AD-HOC) in the Department of Mathematics			
	Responsible for teaching 1st semester and 5th semester students			
#5				
Period:	Even Semester (2011), Odd Semester(2012)			
Institution:	Netaji Subhash University of Technology, Dwarka, Sec-3			
Designation:	Guest Lecturer in the Department of Mathematics			
Jesignation.	Responsible for teaching 1st semester students.			
#6				
Period:	16/07/2007 – 21/04/2009			
Institution:	Scottish Church College			
mstrution.	1 & 3, Urquhart Square,			
	University of Calcutta, Kolkata, West Bengal			
Designation:	PERMANENT Assistant Professor			
	Responsible for teaching 1 st , 2 nd and 3 rd years Honours and Pass students.			
Administrati	ve Assignments			
	rest / Specialization			
Non-lin	near Dynamical systems, Celestial Mechanics, Chaos Synchronization, Control theory, Secure Communications			
Subjects Tau	ght			
-	Algebra			
Real Ar				
Abstract Algebra				
Differential Equations (Ordinary and Partial)				
 Integral Calculus Differential Calculus 				
	ynamics			
Statics	,			
	ility and Statistics			
	Programming Problems			
	Latex, Mathematica			
Research Gu	idance			
Recent Publi	cations			

- Analysis of tumor-immune response model by using conformable fractional order derivative, Ausif Padder, Rimpi Pal, Afroz and Ayub Khan, South East Asian J. of Mathematics and Mathematical Sciences, Vol. 18, No. 3 (2022), pp. 393-414
- Backstepping projective synchronization and adaptive function projective synchronization of identical chaotic systems with application, Rimpi Pal, Anuj Kumar, communicated to Transactions of the Institute of Measurement and Control.
- Generalized Robust Active Sliding Mode Synchronization of Identical Chaotic Systems Under Periodic External Disturbances, Ayub Khan, Rimpi Pal, Journal of Applied Physical Science International, 2(4) (2015)125-136.
- Adaptive Hybrid Function Projective Synchronization of Chaotic Space-Tether-System, Ayub Khan, Rimpi Pal, Nonlinear Dynamics and Systems Theory 14 (1) (2014) 44-57.
- Complete Synchronization, Anti-Synchronization and Hybrid Synchronization of Two Identical Parabolic Restricted Three Body Problem, Ayub Khan, Rimpi Pal, Asian Journal of Current Engineering and Maths2(2)(2013) 118 - 126.
- Synchronization of Two Identical Restricted Planar Isosceles Three-Body-Problem and a Study on Possible Chaos Control, Ayub Khan, Rimpi Pal, Discontinuity, Nonlinearity, and Complexity 2(2) (2013) 183-201.
- Modelling of phytoplankton allelopathy with Monod-Haldane-type functional response-A mathematical study, Rimpi Pal, Debanjana Basu, M. Banerjee, BioSystems 95 (2009) 243-253. (ISSN: 0303-2647).
- Deterministic and Stochastic analysis of a delayed allelopathic phytoplankton model within fluctuating environment,
 Malay Bandyopadhyay, Tapan Saha, Rimpi Pal, Nonlinear Analysis: Hybrid Systems 2 (2008) 958-970. (ISSN: 1751-570X).

(COMMUNICATED AND UNDER REVIEW)

- Backstepping projective synchronization scheme and adaptive function projective synchronization scheme on chaotic Dumbell satellite model: a comparative study, Ayub Khan, Rimpi Pal, Anuj and Shivani.
- Secure communication through function-synchronization of time-delayed uncertain Genesio-lorenz systems, **Ayub Khan and Rimpi Pal.**
- Adaptive function synchronization based secure communications of modified time- delayed Chen lee Systems, Rimpi
 Pal; Shivani Gahlout; Anuj Kumar.

BOOK CHAPTER

Adaptive Hybrid Function Projective Synchronization of Chaotic Space-Tether-System, "Advances in Stability and Control Theory for Uncertain Dynamical Systems", VOL.11 (Stability, Oscillations and Optimization of Systems) Cambridge Scientific Publishers (UK), ISBN: 978-1-908106-73-5, Chapter 11, Adaptive Hybrid Function Projective Synchronization of Chaotic Space-Tether System, Ayub Khan, Rimpi Pal, 2021

Conference Organization/ Presentations

- Paper presentation entitled "Hybrid projective function synchronization of time-delayed Genesio and lorenz systems
 with applications to secure communication", in the INTERNATIONAL CONFERENCE ON DYNAMICAL SYSTEMS,
 CONTROL AND THEIR APPLICATIONS, held at Department of Mathematics, IIT ROORKEE, during July 1-3, 2022.
- Paper presentation entitled "Synchronization of two identical restricted planar isosceles three body problem and a
 detailed study on possible Chaos Control", in the National Seminar for Research Scholars, held at Department of
 Mathematics, University of Delhi, during March 24-25, 2012.
- Paper presentation entitled "Projective Synchronization and Function Projective Synchronization of a Dumbell Satellite under Solar Radiation Pressure and other factors "in International Conference on Frontiers of Mathematical Sciences with Applications-2012, held in Kolkata, West Bengal.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

- Received **Gold Medal (Pravat Kr. Ghosh Gold Medal for Department topper)** and **Certificate of Merit** in B.Sc. Mathematics Honours Examination in 2004 from Scottish Church College, University of Calcutta.
- Ranked 4th in University of Calcutta in B.Sc. Mathematics Honours Examination in 2004 (Among all the affiliated colleges of University of Calcutta in West Bengal).
- Ranked 2nd in University of Calcutta in M Sc Applied Mathematics Examination in 2006.
- Awarded JUNIOR RESEARCH FELLOWSHIP from C.S.I.R. for pursuing Ph.D. in Mathematics in Department of Mathematics, University of Delhi on 11.11.2010 under File no.: 09/045(1033)/2010-EMR-I.

SENIOR DIPLOMA with DISTINCTION in HINDUSTANI CLASSICAL VOCAL from PRAYAG SANGEET SAMITI, ALLAHBAD.

Other Activities

REVIEWER OF THE JOURNAL

International Journal of Control, Automation and Systems, Springer. ISSN: 2005-4092, 1598-6446