



CURRICULAM-VITÆ



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Designation		Assistant Professor				
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Educational Qualifications						
Degree		Institution		Year		
Bsc (H) Physics		Acharya Narendra Dev College		2006-2009		
Msc (Physics) + PhD Physics		IIT Bombay		2009-2016		
Career Profile						
<p>2019- Present Assistant Professor, Department of Physics, Acharya Narendra Dev College (University of Delhi) Govindpuri, Kalkaji New Delhi, India.</p> <p>2017-2019: Postdoctoral Fellow, CInC, UAEM, Cuernavaca, Mexico.</p> <p>2016-2017: Research Associate (for Connected Learning Initiative) at TISS – Mumbai, India.</p> <p>2016: Research Associate, Department of Physics, IIT Bombay, India.</p>						
Administrative Assignments						
NIL						
Areas of Interest / Specialization						
Nonlinear Dynamics: Synchronization and Collective Dynamics of Nonlinear Oscillators						
Subjects Taught						
<p>Modern Physics</p> <p>Electronic Devices and Power Electronics</p> <p>Introduction to Nonlinear Dynamics</p>						
Research Guidance						
Nil						
Publications Profile						
<ol style="list-style-type: none"> Potential-Dependent Topological Modes in the Mercury Beating Heart System, Dinesh Kumar Verma, A. Q. Contractor, and P. Parmananda, J. Phys. Chem. A 117, 267 (2013). Synchronization in Autonomous Mercury Beating Heart Systems, Dinesh Kumar Verma, H. Singh, A. Q. Contractor, and P. Parmananda, J. Phys. Chem. A 118, 4647 (2014). Kuramoto Transition in an Ensemble of Mercury Beating Heart Systems, Dinesh Kumar Verma, Harpartap Singh, P. Parmananda, A. Q. Contractor, M. Rivera, Chaos: An Interdisciplinary Journal of Nonlinear Science 25, 064609 (2015). 						

<ol style="list-style-type: none"> 4. Experimental Evidence of Explosive Synchronization in Mercury Beating Heart Oscillators, P. Kumar, Dinesh Kumar Verma, P. Parmananda, S. Boccaletti, M. Rivera, Physical Review E 91, 062909 (2015). 5. Partially synchronized states in an ensemble of chemo-mechanical oscillators, Pawan Kumar, Dinesh Kumar Verma, P. Parmananda, Physics Letter A, 381, 2337 (2017). 6. Entrainment of aperiodic and periodic oscillations in the Mercury Beating Heart system using external periodic forcing, Pawan Kumar, P. Parmananda, Dinesh Kumar Verma, Tanu Singla, Iram de Nicolás, J Escalona, M Rivera, Chaos: An Interdisciplinary Journal of Nonlinear Science, 29, 053112 (2019). 7. Dynamics of a vertically vibrating mercury drop, Tanu Singla, Dinesh Kumar Verma, Josué Flores Tovar, A Figueroa, Federico Vázquez, Farook Bashir Yousif, M Rivera, AIP Advances, 9, 045204 (2019).
Conference/ Presentations/Workshops
<ol style="list-style-type: none"> 1. DST-SERC School on Data Assimilation 2011, Bangalore, India. 2. Conference on Nonlinear Systems and Dynamics 2013, Indore, MP, India 3. SYMPHY-2014 & 2015, In-house symposium, Department of Physics, IIT Bombay, Mumbai, India. 4. DST-SERC School on Nonlinear Dynamics 2014, Chandigarh, India. 5. Gordon Research Conference on Oscillations and Dynamic Instabilities in Chemical Systems 2014, Costa Brava, Spain. 6. Hands-on Nonlinear Dynamics (HSND) 2015, Gandhinagar, India. 7. Sakura Science Program 2015, Saitama University, Japan. 8. Science Design Camp, MIT-2017, Cambridge, MA, USA.
Research Projects (Major Grants/Research Collaboration)
NIL
Awards and Distinctions
NIL
Association With Professional Bodies
IT committee Alumni Committee
Other Activities
NIL