

# CARRICULUM VITAE

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## Dr. Ram Pravesh Prasad

Assistant Professor

Department of Mathematics

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## Academic Qualifications

- Ph.D in Mathematics 2015  
Thesis Title:  
**Studies on Chaos Synchronization in Different Nonlinear Chaotic and Hyperchaotic systems**  
Supervisors: Prof. Ayub Khan & Dr. V. Ambethkar  
University of Delhi, Delhi-07
- M. Phil in Mathematics 2009  
Dissertation Title:  
**On Finite Difference Schemes for a Class of Hyperbolic Partial Differential Equations**  
Supervisor: Dr. Urvashi Arora  
Rajdhani College, University of Delhi, Delhi-07
- M.Sc in Mathematics 2008  
Department of Mathematics  
Banaras Hindu University  
Varanasi

## **Awards:**

- **CSIR-UGC NET.**
- **GATE.**

## **Teaching Experience:**

- Assistant Professor, Department of Mathematics, Hans Raj College, University of Delhi, Delhi, Since July 2016.
- Assistant Professor, Department of Mathematics, NIT Jalandhar from January-2016-June 2016.
- Assistant Professor, Department of Mathematics, NIT Jalandhar from January-2014-June 2015.

**Examiner:** I was external examiner of Partial Differential Equations and Numerical Methods (lab) at Hindu College and Satyawati College DU Delhi respectively.

**Area of specialization:** Chaos Synchronization, nonlinear system of Ordinary Differential Equations

**Course Taught:** B.Tech, M.Tech, M.Sc & B.Sc (H)

**Paper Taught:** Complex Analysis, Functional Analysis, Differential Equation, Numerical Analysis, Linear Algebra, Calculus

## **Publications**

- A. Khan and R. P. Prasad, Anti-Synchronization of Pan and Lorenz-Lu-Liu-Cai chaotic Systems by Active Nonlinear Control, International Journal of Artificial Life Research, 3(2), 15-25, April-June,2012.
- A. Khan and R. P. Prasad, Hybrid Synchronization of Shimizu-Morioka System by Active Nonlinear Control, International Journal of Computer Information Systems, Vol. 5, N0. 5, 2012.
- A. Khan and R. P. Prasad, “Hybrid chaos synchronization of Hyperchaotic Cai system via sliding mode control” Journal of Engineering Thermo- physics, Vol. 25, No. 1, 2016.
- A. Khan and R. P. Prasad, Anti-Synchronization in Different New Chaotic Systems via Active Nonlinear Control, Vol. 23 (LIX) 2013 No.2 PP.131-143, Archive of Control Sciences.

- A. Khan and R. P. Prasad, “Projective Synchronization of Different Hyper chaotic Systems via Active Nonlinear Control”, Vol. 8, No.2, pp. 90-100, 2014, Journal of Uncertain Systems.
- A. Khan and R. P. Prasad, Modified Projective Synchronization of New Hyper chaotic Systems, Vol. 9, No.1, pp. 049-053, 2014, Journal of Information and Computing Science.
- A. Khan and R. P. Prasad “Adaptive Control for Synchronization of Identical and Non-Identical Hyperchaotic Systems with Unknown Parameters” Journal of Engineering Technology and Applied Sciences 5 (2) 2020 : 77-92.

## **Workshops and Conferences attended:**

- **Research scholar’s Seminar** organised by Delhi University, 22-23 January 2009.
- **National meet on History of Mathematical Sciences** organised by Delhi University, 7-9 January 2009.
- **Research Scholars Seminar** organised by Delhi University, 18-19 March 2010.
- **National Workshop on Differential Equation, Computing and Modelling** organised by Delhi University, 20-24 December 2010.
- **Challenges before Applied Mathematicians: Fluid Dynamics and Optimization Techniques** organised by Rajasthan University, Jaipur 11-13 March 2011.
- **National Seminar for Research Scholars** organised by Delhi University, 24-25 March 2012.
- **The Legacy of Srinivasa Ramanujam International Conference** organised by Delhi University, 17-22 December 2012.
- **Symposium on Computational Techniques and Mathematical Modelling** organised by South Asian University, 5-6 April 2013.
- **Workshop on Information Literacy & Competency** organised by Delhi University, 17<sup>th</sup> January 2013.
- **Workshop on LaTeX and HTML** Organised by Acharya Narendra Dev College, Delhi University, Delhi, 27<sup>th</sup> August-2016.
- Participated in **National Conference on Higher Education Perspectives in India** organised by Deen Dayal College DU and (ABRSM) from July 29-30, 2017.
- Participated in INSPIRE program conducted at Hansraj College, Dec. 12-16, 2017.

- Participated in **Faculty Development program on Emerging Trends in Mathematics** organised by Department of Mathematics ARSD College, Feb.1, 2018.
- Participated in faculty development program on **Mathematica: A Tool for Computational Analysis** organised by Department of Mathematics Hansraj College, March 10-11, 2018.
- Worked as a member on faculty development program on **Mathematica: A Tool for Computational Analysis** organised by Department of Mathematics Hansraj College, March 10-11, 2018.
- Participated in one day seminar on “**Draft New Education Policy, 2019**” organised at Hansraj College, Aug.10, 2019.

## Paper Presented in Seminar/Conferences

- The Paper an entitled “ **Chaos Synchronization of new hyperchaotic systems via active nonlinear control**” in the National Seminar for Research Scholars organised by Delhi University, 20-21 September-2013.
- The Paper an entitled “ **Adaptive control for synchronization of identical and nonidentical Hyperchaotic systems with unknown parameters**” in the national seminar organised at IIT Roorkee, Oct. 12-14, 2018

**Books:** A book chapter on "Synchronization of fractional order hyperchaotic finance systems using sliding mode control techniques"-2020

## Skills:

- **Software Package:** MS Office, Mathematica, LaTeX
- **Language Known:** Hindi and English

## Personal Particulars

Father's Name: Sri Banka Prasad

Mother's Name: Smt Shanti Devi

Nationality: Indian

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