



**DESHBANDHU COLLEGE**  
**(UNIVERSITY OF DELHI)**  
**KALKAJI, NEW DELHI - 110019**

Title	Mrs.	First Name	Harindri	Last Name	Chaudhary	Photograph
Designation	Associate Professor					
Address	DA-2B, D.D.A. Flats, Munirka, New Delhi-110067, India.					
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Mobile	+91 9868316343, +91 9667424946					
Email	harindri20dbc@gmail.com , <a href="mailto:hchaudhary@db.du.ac.in">hchaudhary@db.du.ac.in</a>					
Web-Page						
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D. in Celestial Mechanics	Department of Mathematics, Jamia Millia Islamia, New Delhi				2018-At present	
M.Phil Mathematics	University of Delhi				1998	
M.Sc. Mathematics	IIT Delhi				1995	
B.Sc.(H ) Mathematics	Sri Venkateshwara College, University of Delhi, Delhi				1993	
12 <sup>th</sup>	G.G.S.S.School, Green Park Extension., New Delhi				1990	
10 <sup>th</sup>	G.G.S.S.School, Green Park Extension., New Delhi				1988	
<b>Career Profile:</b>						
<ol style="list-style-type: none"> <li>Working in Deshbandhu College, University of Delhi designated as Associate Professor in the Department of Mathematics from 01.02.2001 to Present Date.</li> <li>Worked as an Academic Counsellor in IGNOU Study Centre at Jesus and Mary College, D.U, Maitreyi College, D.U. and Deshbandhu College, D.U.</li> <li>Worked as Guest Lecturer in Lady Sri Ram College for Women, University of Delhi, Delhi.</li> <li>Worked as Guest Lecturer in Kamala Nehru College, University of Delhi, Delhi.</li> <li>Worked as Guest Lecturer in Dyal Singh College, University of Delhi, Delhi.</li> <li>Worked as Guest Lecturer in Acharya Narendra Dev College, University of Delhi.</li> <li>Taught the under graduate students of B. Sc. (H), Mathematics in Jamia Millia Islamia (A Central University), New Delhi.</li> </ol>						

## Administrative Assignments

1. Working as a member in the Women Development Cell from January 2018 to present date.
2. Worked as a co-convenor of the Admission committee in the year 2005-2006.
3. Worked as convenor of the Student's Union Advisory committee in the year 2006-2007.
4. Worked as convenor of the Cultural committee in the year 2008-2009.
5. Worked as convenor of the Financial Assistance committee in the year 2014-2016 and 2017-2019.
6. Worked as an active member in various committees like prospectus committee, garden committee, proctorial board, student's union committee, development fund committee, attendance committee, NAAC committee, cultural committee, workload committee, canteen committee, etc. during 2001 -2020.
7. Worked as a convenor and coordinator in various papers of undergraduate examinations, DU.
8. Developed e-content for four chapters and prepared a questionnaire for undergraduate students for ILLL, D.U.
9. Worked as an Active Member in the Organizing Committee of the Annual Mathematics Festival "SAMUCHAYAM" of the Deptt. of Mathematics, Deshbandhu College, University of Delhi since 2012.
10. Worked as convenor in the organizing committee of Teacher's Enrichment Workshop (TEW) sponsored by National Centre for Mathematics ( a joint centre of TIFR and I.I.T., Bombay) on "Differential Equations, Mathematical Modeling and Analysis (DEMMA)" organized by Deshbandhu College of University of Delhi from July 24-19, 2018.
11. Introduced the tradition of holding Annual Mathematics Festival "SAMUCHAYAM" in the Department of Mathematics from March 2013 onward during Teacher-Incharge tenure (2012-2014).

## Areas of Interest/Specialization

1. Chaos Theory

## Research Guidance

1. *Supervision of awarded Doctoral Thesis- Nil*
2. *Supervision of Doctoral Thesis, under progress- Nil*
3. *Supervision of awarded M.Phil. dissertations - Nil*
4. *Supervision of M.Phil. dissertations, under progress- Nil*

### ❖ Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals:

1. A. Khan, A. Jain, S. Kaushik, M. Kumar, H. Chaudhary (2021). Anti-Synchronization Scheme for the Stability Analysis of a Newly Designed Hamiltonian Chaotic System based on Henon-Heiles Model using Adaptive Control Method: Applications and Applied Mathematics: An International Journal (AAM) 16 (1), 2021.
2. A. Khan, H. Chaudhary (2021). Stability Analysis of Chaotic New Hamiltonian System Based on  $H\{E}$  non-Heiles Model using Adaptive Controlled Hybrid Projective Synchronization: International Journal of Applied Mathematics 34 (4), 803-815, 2021.
3. A. Khan, A. Jain, H. Chaudhary (2021). Controlling and Synchronization in Chaotic Systems using Parameter Identification Method: J. Math. Comput. Sci. 11 (5), 5780-5792, 2021.
4. A. Khan, H. Chaudhary (2021). Adaptive Hybrid Projective Synchronization of Hyperchaotic Systems: Applications and Applied Mathematics: An International Journal (AAM) 16 (1), 2021.
5. T. Khan, A. Khan, H. Chaudhary (2021). Controlling Chaos in a Newly Designed Chaotic Hamiltonian System based on Henon-Heiles Model using Active Controlled Hybrid Projective Synchronization: Journal of Scientific Research 13 (2), 415-421, 2021.
6. T. Khan, H. Chaudhary (2021). Adaptive Controllability of Microscopic Chaos Generated in Chemical Reactor System using Anti-Synchronization Strategy: Numerical Algebra, Control & Optimization, 2021, doi: [10.3934/naco.2021025](https://doi.org/10.3934/naco.2021025)
7. T. Khan, H. Chaudhary (2021). Combination Anti-Synchronization for Chaos Generated by Generalized Lotka-Volterra Biological Systems using Parameter Identification Method: Mathematics in Engineering, Science & Aerospace (MESA) 12 (2), 2021.
8. T Khan, H Chaudhary (2020). An Investigation on Hybrid Projective Synchronization of Hyperchaotic Systems: Poincare J. Anal. Appl 7 (2), 211-225, 2020.
9. Taqseer Khan and Harindri Chaudhary (2020). Controlling and Synchronizing Combined Effect of Chaos Generated in Generalized Lotka-Volterra Three Species Biological Model using Active Control Design. Applications & Applied Mathematics 15 (2), 1-12-2020.
10. S. Kumar, A. E. Matouk, H. Chaudhary, S. Kant (2020). Control and Synchronization of Fractional-order Chaotic Satellite Systems using Feedback and Adaptive Control Techniques: International Journal of Adaptive Control and Signal Processing 35 (4), 484-497, 2020.
11. Taqseer Khan and Harindri Chaudhary (2020). Projective Synchronization in Hyperchaotic Systems using Adaptive Control Method. Advances in Mathematics: Scientific Journal 9 (2020), no.10, 7841-7849; ISSN: 1857-8365 (printed); 1857-8438 (electronic); <https://doi.org/10.37418/amsj.9.10.16> Spec. Issue on ACMAMP-2020.
12. Pushali Trikha, Harindri Chaudhary, Nasreen, Lone Seth Jahanzaib, S.M. Khursheed Haider (2020). Multiswitching Hybrid Synchronization Using Disturbance Observer Adaptive Sliding Mode Control On Fractional Order Chaotic System, J. Math Comput. Sci., 10(5):1463-148, 2020.
13. Lone Seth Jahanzaib, Pushali Trikha, Harindri Chaudhary, S.M. Haider and Nasreen (2020). Compound Synchronization using Disturbance Observer Adaptive Sliding Mode Control Technique. J. Math. Comput. Sci., 10(5): 1463-1482, 2020.
14. Taqseer Khan and Harindri Chaudhary (2020) Estimation and identifiability of parameters for generalized Lotka-Volterra biological systems using adaptive controlled combination difference anti-synchronization. Differential equations and dynamical systems, 28:515-526, 2020.
15. Ayub Khan, Nasreen, Harindri Chaudhary, Pushali Trikha and Lone Seth Jahanzaib (2020). Disturbance Observer Based Adaptive Sliding Mode Hybrid Projective Compound Synchronization, International Journal on Emerging Technologies, March 2020.

16. Ayub Khan and Harindri Chaudhary (2020), Hybrid Projective Synchronization of Hyperchaotic Systems via Adaptive Control, J. Sci. Res. 12 (2), 201-208(2020) 4-D
17. Ayub Khan and Harindri Chaudhary (2020), Hybrid Projective Combination-Combination Synchronization in Non-Identical Hyperchaotic Systems using Adaptive Control, Arabian Journal of Mathematics, pages 1-15, 2020.
18. Ayub Khan and Harindri Chaudhary (2019), Hybrid Synchronization among Identical Hyperchaotic Systems using Adaptive Control, Journal of Basic and Applied engineering Research, p-ISSN: 2350-0077; e-ISSN: 2350-0255; Volume 6, Issue 8; July-September, 2019, pp. 464-470.

### **Publications of Research Articles in the Proceedings of Conferences/ Seminars/ Symposiums:**

1. Ayub Khan and Harindri Chaudhary (2021). Stability Analysis of Chaotic Generalized Lotka-Volterra System via Active Compound Difference Anti-Synchronization Method , Advances in Mechanical Engineering, SCOPUS Indexed, Springer (ACCEPTED).
2. Ayub Khan and Harindri Chaudhary (2021). A Comprehensive Analysis on Controlling and Hybrid Synchronization in Identical Chaotic Systems via Active Control Method, Journal of Physics: Conference Series (IOP Science, In the proceedings of International Conference on "Recent Advances in Fundamental and Applied Sciences (RAFAS-2021) " held on June 25-26, 2021, organized by School of Chemical Engineering and Physical Sciences, Lovely Faculty of Technology and Sciences, Lovely Professional University, Punjab. (SCOPUS Indexed), (ACCEPTED).
3. Ayub Khan and Harindri Chaudhary (2021). Chaos Controllability in Chemical Reactor System via Active Controlled Hybrid Projective Synchronization Method, In AIP Conference Proceedings of the 3rd International Conference on Frontiers in Industrial and Applied Mathematics FIAM 2020 held during December 21-22, 2020. SCOPUS Indexed (ACCEPTED).
4. Taqseer Khan and Harindri Chaudhary (2021). Co-Existence of Chaos and Control in Generalized Lotka-Volterra Biological Model: A Comprehensive Analysis. In the proceedings of 20th BIOMAT International Symposium on Mathematical and Computational Biology, held ON-LINE VERSION, NOVEMBER 01 - 06, 2020, SPRINGER (SCOPUS Indexed)
5. Taqseer Khan and Harindri Chaudhary (2020). Controlling Chaos Generated in Predator-prey Interactions using Adaptive Hybrid Combination Synchronization. In the Proceedings of 3rd International Conference on Computing Informatics and Networks (ICCIN-2020); ISBN 978-981-15-9711-4, Springer (SCOPUS).
6. Taqseer Khan and Harindri Chaudhary (2020). Chaos Synchronization among Identical Chaotic New Hamiltonian Systems using Active Control Method. In the Proceedings of International Conference on Discrete and Applied Mathematics (ICDAM-2020) as a Book Chapter (Accepted).
7. Ayub Khan, and Harindri Chaudhary (2020). Hybrid Projective Synchronization Identical Hyperchaotic Systems using Active Control, AIP Conference Proceedings 2253, 020014, 2020.
8. Ayub Khan and Harindri Chaudhary (2019). Adaptive Control and Hybrid Projective Synchronization of Chaos Generated by Generalized Lotka-Volterra Biological Systems. In the Proceedings of UGC Sponsored National Conference on Emerging Trends in Information Technology as a Book Chapter, ISBN: 978-93-89165-99-9, 174-184, 2019.

### **Book Chapters:**

1. Developed (Author) E-lesson entitled "CONICS" for Discipline Course in Mathematics under the Four Year Undergraduate Program (FYUP) in June, 2013.
2. Developed (Author) E-lesson entitled "PROPERTIES OF CONICS" for Discipline Course in Mathematics under the Four Year Undergraduate Program (FYUP) in June, 2013.
3. Developed (Author) E-lesson entitled "LIMIT THEOREMS and MONOTONE SEQUENCES" for

Discipline Course in Mathematics under the Four Year Undergraduate Program (FYUP) in July, 2014.

4. Developed (Author) E-lesson entitled "DIFFERENTIATION OF FUNCTIONS" of paper ANALYSIS-II in Mathematics and the same was uploaded on ILL Portal (vle.du.ac.in: ISSN 2349-154X) in July, 2014.
5. Developed (Co-Author) E-lesson entitled "MEAN VALUE THEOREM" of paper ANALYSIS-II in Mathematics and the same was uploaded on ILL Portal (vle.du.ac.in: ISSN 2349-154X) in July, 2014.

#### Conference Organization/Presentations

##### ❖ Participation as Paper/Poster Presenter:

1. Presented a paper as Oral Presentation titled "Stability Analysis of Chaotic Generalized Lotka-Volterra System via Active Compound Difference Anti-Synchronization Method " in a three day International Conference - CAMSE-2021 in association with Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab held during July 17-19, 2021. (ONLINE MODE)
2. Presented a paper as Oral Presentation titled "A Comprehensive Analysis on Controlling and Hybrid Synchronization in Identical Chaotic Systems via Active Control Method" in a two day International Conference on "Recent Advances in Fundamental and Applied Sciences (RAFAS-2021) " held on June 25-26, 2021, organized by School of Chemical Engineering and Physical Sciences, Lovely Faculty of Technology and Sciences, Lovely Professional University, Punjab held on June 25-26, 2021. (ONLINE MODE)
3. Presented a paper as Oral Presentation titled " Stability Analysis and Projective Synchronization between Identical Chaotic Systems via Active Control Design" in a two-day " International Virtual Conference on Computational Mathematics (ICCM-2K21)" organized by the Department of Mathematics, PPG College of Arts and Science, Coimbatore-35, India (Affiliated to Bharathiar University) from 24-25 June, 2021. (ONLINE MODE)
4. Presented a paper as Oral Presentation titled " Stability Analysis of Non-Identical Hyperchaotic Systems using Active Combination-Combination Hybrid Synchronization Technique " in a three-day International Web Seminar on "Applied Mathematics and Mathematical Physics, Number Theory and Analysis (AMMPNTA-2021)" organized by Calcutta Mathematical Society held during January 16-17, 2021. (ONLINE MODE)
5. Presented a paper as Oral Presentation titled "An Investigation on Parametric Identification Method of Controlling Chaos in Generalized Lotka-Volterra Systems via Hybrid Projective Difference Combination Synchronization Technique" in a three day International Conference - CAMSE-2020 in association with Shobhit University Gangoh and Technology supported by STEM-Research Society and Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab held during December 28-30, 2020. (ONLINE MODE)
6. Participated and has given the talk titled "Co-existence of Chaos and Control in Generalized Lotka-Volterra Biological Model: A Comprehensive Analysis" in a six day "20<sup>th</sup> BIOMAT International Symposium on Mathematical and Computational Biology" organized by BIOMAT Consortium, International Institute for Interdisciplinary Sciences from November 01 - 06, 2020. (ONLINE VERSION)
7. Presented a paper as Oral Presentation titled "Adaptive Controllability of Chaos in Generalized Lotka-Volterra Biological Model using Projective Combination Difference Synchronization Technique " in a four-day International Conference on "Advances in Differential Equations and Numerical Analysis (ADENA-2020)" organized by the Department

of Mathematics, Indian Institute of Technology, Guwahati, India from 12-15 October, 2020. (ONLINE MODE).

8. Presented a paper as Oral Presentation titled "Chaos Synchronization among Identical Chaotic New Hamiltonian Systems using Active Control Method " in a two-day International Conference on "Discrete and Applied Mathematics (ICDAM-2020)" organized by the Centre for Studies in Discrete Mathematics (CSDM), Vidya Academy of Science and Technology, Thrissur, Kerala, India, in association with Kerala Mathematical Association (KMA) during 18-19 September, 2020. (ONLINE MODE)
9. Presented a paper as Oral Presentation titled "Adaptive Controllability of Microscopic Chaos Generated in Chemical Reactor System using Anti-Synchronization Strategy" in a three-day International Conference on " Integrated Interdisciplinary Innovations in Engineering (ICIIE-2020)" organized by the University Institute of Engineering and Technology, Panjab University, Chandigarh from August 28-30, 2020. (ONLINE MODE)
10. Presented a paper as Oral Presentation titled "Anti-Synchronization Approach to the Stability Analysis of a Newly Designed Hamiltonian Chaotic System Based on Henon-Heiles Model using Adaptive Control Method" in a three-day International Conference on "Advancement in Interdisciplinary Research (ICAIR-2020)" organized Online by Forum for Interdisciplinary Research in Mathematical Sciences and Beena Mahavidyalaya, Jaipur held during July 24-26, 2020. (ONLINE MODE)
11. Presented a paper as Oral Presentation titled "Controlling Chaos Generated in Predator-prey Interactions using Adaptive Hybrid Combination Synchronization" in a two-day International Conference on "Computing Informatics and Networks (ICCIN-2020)" organized by the Department of Computer Science and Engineering of Bhagwan Parshuram Institute of Technology, New Delhi affiliated to GGSIPU from July 29-30, 2020. (ONLINE MODE)
12. Presented a paper as Oral Presentation titled "Combination Projective Synchronization in Chaotic Predator-Prey Biological Systems via Adaptive Control " in a five-day International Conference on "Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petrinets, (ICRTMA-GPN-2020)" jointly organised by Vijnana Parishad of India and School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi-110067, India, held online during July 22-24, 2020. (ONLINE MODE)
13. Presented a paper as Oral Presentation titled "Controlling and Synchronizing Combined Effect of Chaos Generated in Predator-Prey Model using Active Control " in a two-day National Conference on "Pharmacovigilance: Advancements in the Safe Drug Development (NCPASDD-2020)" held at Deshbandhu College, University of Delhi, on 16<sup>th</sup>-17<sup>th</sup> January 2020.
14. Presented a paper as Oral Presentation titled " Hybrid Projective Synchronization in Identical Hyperchaotic Systems via Active Control" in the Second International Conference on "Frontiers in Industrial and Applied Mathematics (FIAM-2019)" organized by the Department of Applied Sciences (Mathematics), Galgotias College of Engineering and Technology, Greater Noida, U.P., India during December 21-22, 2019.
15. Presented a paper as Oral Presentation titled "Hybrid Combination Synchronization for Chaos Generated in Lotka-Volterra Biological Systems via Adaptive Control" in the International Conference on "Applicable Mathematics (ICAM-2019)" with the theme "Network Science" organized by the Department of Mathematics, Ramanujan College, University of Delhi held during December 19-21, 2019.
16. Presented a paper as Oral Presentation titled "Combination Anti-Synchronization for Chaos Generated by Lotka-Volterra Biological Systems using Parameter Identification Method" in the International Conference on "Mathematical Analysis and Its Applications" held at the Department of Mathematics, South Asian University, New Delhi during December 14-16, 2019.
17. Presented a paper as Oral Presentation titled "Controlling Chaos and Combination Synchronization of Chaotic Generalized Lotka-Volterra Biological Systems via Adaptive Control Method" in a two-day National Conference on "Insect-Plant Biology in 21<sup>st</sup> Century" held at



Deshbandhu College, University of Delhi from November 04-105, 2019.

18. Presented a paper as Oral Presentation titled "Chaos Control and Synchronization between Hyperchaotic Systems using Active Control " in a two-day National Conference on "Advances in Mathematical Analysis and its Applications (NCAMAA-2019)" organized by the Department of Mathematics, P.G.D.A.V. College, University of Delhi, Delhi and sponsored by SERB-DST, INDIA during November 8-10, 2019.
19. Presented a paper as Oral Presentation titled " Hybrid Synchronization among Identical Hyperchaotic Systems using Adaptive Control " in a one-day International Conference on "Modern Research in Physical, Chemical Science, Mathematics, Statistics and Emerging Energy Technology (PCMSET-2019)" organized by the Krishi Sanskriti held at Jawaharlal Nehru University, Delhi on 21<sup>st</sup> September, 2019.
20. Presented a paper as Oral Presentation titled "Adaptive Control and Hybrid Projective Combination Synchronization of Chaos Generated by Generalized Lotka-Volterra Biological Systems " in a two-day National Conference on "Emerging Trends in Information Technology (NCETIT-2019)" organized by the Department of Computer Science, Kalindi College, University of Delhi, Delhi and sponsored by UGC, INDIA during August 1-2, 2019.
21. Presented a paper as Oral Presentation titled "Adaptive Hybrid Projective Combination-Combination Synchronization in Non-Identical Hyperchaotic Systems " in a one-day Conference on "Algebra, Analysis and Applications" organized by the Ambedkar University Delhi, New Delhi on May 10, 2019.
22. Presented a paper as Oral Presentation titled "Synchronizing Identical Hyperchaotic Systems using Adaptive Control" in the International Conference on "Recent Developments in Theory, Computation and Application of Differential Equation" held at the Department of Mathematics, South Asian University , New Delhi during January 21-23, 2019.
23. Presented a paper as Oral Presentation titled "Hybrid Projective Synchronization of 4-D Hyperchaotic System via Adaptive Control" in a three-day International Conference on "Physics, Society and Technology-2019 (ICPST-2019)" organized by the Department of Physics, Deshbandhu College, University of Delhi from January 17-19 , 2019.
24. Presented a paper as Poster Presentation titled "On Generalized Banach Function Spaces of Lebesgue Type" in the International Workshop on "Recent Advances in Operator Semigroups" held at the the Department of Mathematics, University of Delhi, during December 18-21, 2017.
25. Presented a paper as Oral Presentation titled "On Generalized Duality of Banach Function Spaces of Lebesgue Type" in the International Conference on "Current Trends in Theoretical and Computational Differential Equations with Applications" held at the Department of Mathematics, South Asian University , New Delhi during December 01-05, 2017.

#### ❖ Seminars/ Workshops/ Conferences Attended:

1. Attended a two- day International Workshop on "Numerical Methods in Scientific Computing (IWNMSC-2020)" held at the Department of Mathematics, South Asian University , New Delhi during February 21-22, 2020.
2. Attended a one-day Workshop on "Women Healthcare, Hygiene, Gender Sensitivity and Women Empowerment" under "Mission AAA"-Awareness, Availability and Affordability of Sanitary Napkins Supported by Bharat Petroleum Corporation Limited (BPCL) organized by the Deshbandhu College, University of Delhi in association with CSR Research Foundation held on January 08, 2020.
3. Attended a two- day National Workshop on "Vedic Mathematics and Indian Languages" organized by the Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education, Government of India at R.K.Puram, Sector-1, New Delhi from October 18-19, 2019. .
4. Attended a three-day International Conference on "Physics, Society and Technology-2019 (ICPST-2019)" organized by the Department of Physics, Deshbandhu College, University of Delhi from January 17-19 , 2019.
5. Participated in a one-day "International Meet on Analysis" held at the Department of

- Mathematics, University of Delhi on Saturday, November 24, 2018.
6. Participated in a four-day International Conference on "Nonlinear Systems and Dynamics (CNSD-2018)" organized by the Jawaharlal Nehru University, New Delhi from 11<sup>th</sup>-14<sup>th</sup> October, 2018.
  7. Attended a three-day National Workshop on "Applications of Graph and Network in Computational Studies, Bioinformatics, Engineering and its Technical Terminology" organized by the School of Integrative and Computational Sciences (SCIS), Jawaharlal Nehru University in collaboration with Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education, Government of India from March 12-14, 2018.
  8. Participated in a one-day National Workshop on "Intellectual Property Rights (IPR)" organized by the Jawaharlal Nehru University, New Delhi held on 19th January, 2018.
  9. Attended a two-day National Workshop on "Technical Terminology in Science Teaching" organized by Deshbandhu College, University of Delhi in collaboration with Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education, Government of India from October 26-27, 2017.
  10. Participated in a three-day "2017 Annual Conference of Indian Women and Mathematics" held at the Indian Institute of Science, Bengaluru, from 13<sup>th</sup> to 15<sup>th</sup> July, 2017.
  11. Participated in a two-day "Research Scholars' Seminar and Annual Conference of the Society of Mathematical Sciences (Delhi)" held at the Department of Mathematics, University of Delhi during May 01-02, 2017.
  12. Received an Appreciation letter from Dean of Student's Welfare, University of Delhi, Delhi-110007 for the contribution during ECA admissions 2016-2017 done centrally for the first time during June-July, 2016.
  13. Participated in a one-day Workshop on "e-Content Creation in Mathematics" organized by the Institute of Life Long Learning (ILL), University of Delhi, Delhi-110007 held on 21<sup>st</sup> June, 2016.
  14. Participated in a one-day Workshop on "MOOC" organized by the Institute of Life Long Learning (ILL), University of Delhi, Delhi-110007 held on 30<sup>th</sup> March, 2016.
  15. Participated in a one-day State Level Seminar on "Mathematics and its Applications" organized by the Department of Mathematics, Kamala Nehru College University of Delhi held on March 04, , 2016.
  16. Participated in a one-day Workshop on "e-Content Creation in Mathematics" organized by the Institute of Life Long Learning (ILL), University of Delhi, Delhi-110007 held on 29<sup>th</sup> January, 2015.
  17. Attended the Eighty-First Annual Meeting of the Indian Academy of Sciences held in IISER-Pune from 5<sup>th</sup> to 8<sup>th</sup> November 2015 and took part in the scientific programme of lectures and an interaction meeting with Fellows and Science Education Panel of the Academy.
  18. Participated in a three day Workshop on "Indian Women and Mathematics" organized by the South Campus, University of Delhi, Delhi-110007 during April 2-4, 2015.
  19. Attended a three day International Conference on "Self, World and Morality: Schopenhauer and Indian Philosophy with a special reference to the Upanishads (Oupnek'hat)" organized by the Department of Philosophy, Deshbandhu College, University of Delhi at Jawaharlal Nehru University, New Delhi from 23<sup>rd</sup> - 25<sup>th</sup> February, 2015.
  20. Attended a two day ISI-ISM-ISSAS Joint International Conference -2014 on "Probability and Statistics" organized by Stat-Math Unit, Indian Statistical Institute, Delhi Centre .
  21. Participated in a two day Workshop on Foundation Course on "Teaching Methodology for Mathematics for Visual Impairment" organized by the CPDHE, University of Delhi, Delhi-110007 during 12<sup>th</sup> to 13<sup>th</sup> March, 2014.
  22. Attended a three day RMS- UGTE Workshop on "Finite Group and Applications" organized by Deshbandhu College, University of Delhi from February 7-9, 2014.
  23. Attended a two day International Seminar on "History of Mathematics" held at Ramjas College of University of Delhi from November 27-28, 2013.
  24. Participated in a two day RMS-UGTE Workshop organized by the Department of Mathematics, Lady Shri Ram College for Women from 8<sup>th</sup>-9<sup>th</sup> November, 2013.



25. Participated in one day Workshop on "MATLAB and Simulink Academic Tour 2013 of Mathworks" organized by the Cluster Innovation Centre, University of Delhi, Delhi-110007 held on 23<sup>rd</sup> September, 2013.
26. Participated in a three day Workshop on Foundation Course on "Building Mathematical Ability" organized by the CPDHE, University of Delhi, Delhi-110007 during 20<sup>th</sup> to 22<sup>th</sup> May, 2013.
27. Participated in a six day International Conference on "The Legacy of Srinivasa Ramanujan" organized by the Department of Mathematics, University of Delhi, Delhi-110007 during 17<sup>th</sup> to 22<sup>th</sup> December, 2012.
28. Participated in a one day Science Academies Workshop titled "Ergodic Theory and Dynamical Systems" organized by the School of Physical Sciences, Jawaharlal Nehru University, New Delhi held on October 1, 2012.
29. Attended a two week Instructional School for Lecturers (ISL) under ATML, supported by NBHM, in "Real Analysis and Measure Theory" organized by the Department of Mathematics, University of Delhi from 26<sup>th</sup> March to 7<sup>th</sup> April, 2012.
30. Attended a three day National Workshop and Training Program on "Differential Equations and Mathematical Modeling" organized by the Department of Mathematics, held at Lady Shri Ram College for Women, University of Delhi from 9<sup>th</sup> to 11<sup>th</sup> February, 2012.
31. Attended a three-day National Seminar on "Globalization and Higher Education: Challenges and Opportunities" organized by the Department of Commerce, Gargi College, University of Delhi held on 9<sup>th</sup> to 07<sup>th</sup> March, 2011.
32. Participated in one-day Workshop on "MATHEMATICA" organized by Department of Mathematics, South Campus, University of Delhi held on 8<sup>th</sup> December 2010.
33. Attended Workshop Cum Training Program on "Modern Trends in Celestial Mechanics and Astronomy" organized by the Department of Mathematics, Deshbandhu College during 17-19 March, 2010.
34. Attended a two day National Symposium titled "Current Trends in Genomics and Proteomics" organized by the Department of Biochemistry, Deshbandhu College from 04<sup>th</sup> to 05<sup>th</sup> February, 2010.
35. Participated in the National Meet on History of Mathematics Sciences held at Conference Centre, University of Delhi during January 7-9, 2010.
36. Attended a six day ICT Workshop for Capacity Building of Delhi University Faculty held at ILL of University of Delhi from 30<sup>th</sup> November to 05<sup>th</sup> December, 2009.
37. Attended a two day Seminar titled "From the Life of Mathematics" organized by the Mathematics Sciences Foundation, New Delhi at Lady Shri Ram College for Women, University of Delhi held on 23<sup>th</sup> to 24<sup>th</sup> February, 2009.
38. Attended a one day National Symposium titled "Recent Advances in Immunology" organized by the Department of Biochemistry, Deshbandhu held on 30<sup>th</sup> January, 2009.
39. Attended a three day International Conference titled "Pre-ICM, International Convention on Mathematical Sciences" organized by the Department of Mathematics, University of Delhi, Delhi-110007 at Conference Centre, held on 18<sup>th</sup> to 20<sup>th</sup> December, 2008.
40. Attended a one day Workshop on "Electronic Resources and www in Teaching and Research" organized by the Delhi University Library System at Lady Shri Ram College for Women, University of Delhi on 4<sup>th</sup> March, 2008.
41. Attended a three day Seminar on "From the Life of Mathematics" organized by the Mathematics Sciences Foundation, New Delhi at Lady Shri Ram College for Women, University of Delhi from 25<sup>th</sup> to 27<sup>th</sup> February, 2008.
42. Attended a four day International Conference on "Operator Theory and related Areas" organized by the Department of Mathematics, University of Delhi, Delhi-110007 at North Campus, from 09<sup>th</sup> to 12<sup>th</sup> January, 2008.
43. Participated in the International Conference on "Mathematics in the Twentieth Century in Commemoration of the Birth Centenary of Andre Weil" organized by the Department of Mathematics, University of Delhi, Delhi-110007 during 2<sup>nd</sup> to 5<sup>th</sup> January, 2006.

44. Participated in the International Conference on "Functional Analysis and its Applications" organized by the Department of Mathematics, University of Delhi, Delhi-110007 during 22<sup>nd</sup> to 25<sup>th</sup> January, 1999.
45. Participated in the International Conference on "Function Spaces and Applications to Partial Differential Equations" organized by the Department of Mathematics, University of Delhi at the South Campus, Benito Juarez Road, New Delhi-110021 from 15<sup>th</sup> to 19<sup>th</sup> December, 1997.
46. Participated in the Discussion Meeting on Harmonic Analysis organized by the Department of Mathematics, University of Delhi at the South Campus, Benito Juarez Road, New Delhi-110021 from 24<sup>th</sup> to 26<sup>th</sup> March, 1996.

### **Summer Institutes, Refresher or Orientation Courses attended:**

1. Attended a 3-week Refresher Course in Mathematics from 07<sup>th</sup> November 2006 to 27<sup>th</sup> November 2006 organized by the UGC-ASC, Jamia Millia Islamia, New Delhi and obtained Grade A.
2. Attended a 3-week Refresher Course in Mathematics entitled "Computational Applied Mathematics" conducted by CPDHE, University of Delhi, Delhi-11007 from September 27 to October 18, 2006.
3. Participated in a paper reading titled "Category Theory" in a 3-week Refresher Course in Mathematics entitled "Computational Applied Mathematics" conducted by CPDHE, University of Delhi, Delhi-11007 from September 27 to October 18, 2006.
4. Attended a 4-week Orientation Course from 27<sup>th</sup> December 2001 to 23<sup>rd</sup> January, 2002 organized by the UGC-ASC, Jamia Millia Islamia, New Delhi.
5. Attended a 3-week Refresher Course in Mathematics entitled "Inter Disciplinary Mathematics" conducted by CPDHE, University of Delhi, Delhi-110007 from April 29 to May 19, 1999.

### **Organizer of Conferences/Seminars/Workshops:**

1. Worked as Convener, Organizing Committee in the Faculty Development Program (FDP) on "Graph Theory and its Applications (GTA-2021)" organized by the Department of Mathematics, Deshbandhu College, University of Delhi from September 15-21, 2021 in Collaboration with Mahatma Hansraj College, University of Delhi under the umbrella of PMMMMNTT Scheme. . (ONLINE MODE)
2. Worked as Convener, Organizing Committee in the Teacher's Enrichment Workshop (TEW) on "Differential Equations and its Applications (DEA-2021)" organized by the Department of Mathematics, Deshbandhu College, University of Delhi from March 15-28, 2021 which is fully funded by the National Centre for Mathematics, A joint centre of TIFR and IIT Bombay, Advanced Training in Mathematics. (ONLINE MODE)
3. Worked as Coordinator, Organizing Committee in a National Webinar on "Empowering Young Women from Marginalized Backgrounds" organized by Women Development Cell and IQAC, Deshbandhu College, University of Delhi, on 30<sup>th</sup> September, 2020. (ONLINE MODE)
4. Worked as a member, Organizing Committee in a two-day International Conference on "Emerging Trends in Vedic Mathematics and Applications in Science, Technology and Social Science Research (ETVMA-STSSR-2020)" organized by Special Centre for E-Learning (SCEL), Jawaharlal Nehru University, New Delhi held on August 16-17, 2020. (ONLINE MODE)
5. Worked as Convener, Cultural Programme in a two-day National Conference on "Pharmacovigilance: Advancements in the Safe Drug Development (NCPASDD-2020)" held at Deshbandhu College, University of Delhi, on 16<sup>th</sup>-17<sup>th</sup> January 2020.
6. Worked as a member, Organizing Committee in a two-day National Conference on

“Pharmacovigilance: Advancements in the Safe Drug Development (NCPASDD-2020)” held at Deshbandhu College, University of Delhi, on 16<sup>th</sup>-17<sup>th</sup> January 2020.

7. Worked as Convener, Cultural Programme in a three-day International Conference on “Physics, Society and Technology-2019 (ICPST-2019)” organized by the Department of Physics, Deshbandhu College, University of Delhi from January 17-19, 2019.
8. Worked as a member, Organizing Committee in a three-day International Conference on “Physics, Society and Technology-2019 (ICPST-2019)” organized by the Department of Physics, Deshbandhu College, University of Delhi from January 17-19, 2019.
9. Worked as Convener in the organizing committee of Teacher's Enrichment Workshop (TEW) sponsored by National Centre for Mathematics (A joint centre of TIFR and I.I.T., Bombay, Training in Mathematics) on “Differential Equations, Mathematical Modeling and Analysis (DEMMA)” organized by Deshbandhu College of University of Delhi from July 24-19, 2018.
10. Worked as Convener, Organizing Committee in the Teacher's Enrichment Workshop (TEW) on “Differential Equations, Mathematical Modelling and Analysis (DEMMA-2018)” organized by the Department of Mathematics, Deshbandhu College, University of Delhi from July 24-19, 2018 which is fully funded by the National Centre for Mathematics, A joint centre of TIFR and IIT Bombay, Advanced Training in Mathematics.
11. Worked as Convener in the organizing committee of one day National Seminar on “Rashtriya Ekta Diwas” organized by the Deshbandhu College, University of Delhi on October 31, 2015.
12. Worked as Convener in the organizing committee of Science Academies Lecture Series Workshop on “Differential Equations and Applications” organized by the Department of Mathematics, Deshbandhu College of University of Delhi from March 7-8, 2014.
13. Worked as Convener, Organizing Committee of RMS- UGTE Workshop on “Finite Group and Applications” organized by the Department of Mathematics, Deshbandhu College, University of Delhi from Feb 7-9, 2014.
14. Worked as a member, Organizing Committee in the "Inspire Internship Program-2012" organized by Deshbandhu College, University of Delhi, held from October 1-5, 2012.
15. Worked as a member, Organizing Committee in the Workshop Cum Training Program on “Modern Trends in Celestial Mechanics and Astronomy” organized by the Department of Mathematics, Deshbandhu College during 17-19 March, 2010.

### **Invited talks in Colleges/ Institutes/ Universities Conferences/Seminars/Workshops:**

1. Delivered an Invited Talk titled in the webinar on "Open Book Examination: Challenges and Opportunities as a Special Speaker" organized by Dr. Bhim Rao Ambedkar College, University of Delhi held on June 02, 2020. (Online Mode)
2. Delivered an Invited Talk titled "Numerical Analysis" organized by the "MATHEMIND"-The Mathematics Society of Bhagini Nivedita College, University of Delhi held on 13<sup>th</sup> May, 2020. (Online Mode)
3. Delivered an Invited Talk titled "History of Ancient Mathematics" in the one-day event EQUINOX'18, organized by the "MATHEMIND"-The Mathematics Society of Bhagini Nivedita College, University of Delhi held on 25<sup>th</sup> April, 2019.
4. Delivered an Invited Talk titled "Vedic Mathematics" in the one-day event EQUINOX'18, organized by the "MATHEMIND"-The Mathematics Society of Bhagini Nivedita College, University of Delhi held on 28<sup>th</sup> March, 2018.

Research Projects (Major Grants/Research Collaboration)

*Nil*

Awards and Distinctions

1. Medal for standing First in B.Sc. (H) Maths in 2<sup>nd</sup> year of graduation (1992).
2. Seema Memorial Medal for standing First in Maths (H), 2<sup>nd</sup> year of graduation (1992).
3. Medal for standing first in B.Sc. (H) Maths in 3<sup>rd</sup> Year of graduation (1993).
4. Sri Sundara Ayyar and Alamelu Memorial Medal for standing First in Maths (H), final year (1993).
5. Smt. Velagalety Suvarchalamba Memorial Medal for standing First in all Honours courses in the College (1993).
6. Student Union Medal for standing First in the final year of the science stream in the college (1993).
7. Obtained First Rank in B.A.(H), Maths and B.Sc.(H), Maths of all colleges of South Campus, University of Delhi, Delhi in the year 1993.
8. Received merit-cum-means scholarship in M.Sc., IIT. Delhi, (1993-95).
9. Cleared CSIR NET (JRF); Dec, 1995.
10. Cleared GATE-96, ALL INDIA RANK- SECOND.
11. Qualified NBHM (National Board of Higher Mathematics) -Ph.D.(Mathematics) written Exam.- 1995.
12. Qualified Ph.D. (Mathematics) Entrance Examination-1995 conducted by HRI (Harish-Chandra Research Institute, formerly Mehta Research Institute) , Allahabad.
13. Qualified M.Sc.(Mathematics) Entrance Examination-1993 conducted by I.I.T.,Delhi.
14. Received merit scholarship twice from the Delhi Police Deptt. from 1988 to 1990.
15. Completed a two year Minor Research Project entitled "On Generalized Banach Function Spaces of the Lebesgue type", funded by University Grants Commission (INDIA) during 2006-2008.
16. Received an Appreciation letter from Dean of Student's Welfare, University of Delhi, Delhi-110007 for the contribution during ECA admissions 2016-2017 done centrally for the first time during June-July, 2016.
17. Received an Appreciation letter from Deputy Dean of Student's Welfare, the Culturecouncil, University of Delhi, Delhi-110007 for a long creative association of about ten years from November, 2005 to July, 2015 with the Culturecouncil, a vibrant body of the University of Delhi.
18. Appointed as an expert in the selection committee of assistant professor in the Department of Mathematics by Bhagini Nivedita College (University of Delhi), Near Najafgarh, Delhi-110043.
19. Worked as a Deputy Superintendent in conducting the Ph. D. Entrance Examination of NBHM held on August 18, 2021 for the session 2021-2022 at Deshbandhu College, University of Delhi. (OFFLINE MODE)

Association With Professional Bodies

- *Editing- Nil*
- *Reviewing- Nil*
- *Advisory- Nil*
- *Committees and Boards- Nil*
- *Memberships- Nil*
- *Office Bearer- Nil*

**Achievements in Sports:**

1. Participated in "100 mtr Race competition (Teachers)" in the Annual Sports Meet 2014-2015 of Deshbandhu College, University of Delhi and Secured 3<sup>rd</sup> position.
2. Participated in " Briskwalk competition (Teachers)" in the Annual Sports Meet 2014-2015 of Deshbandhu College, University of Delhi and Secured 3<sup>rd</sup> position.
3. Participated in Shot Put competition (Teachers) in the Annual Sports Day 2010 of Deshbandhu College, University of Delhi and Secured 2<sup>nd</sup> position.
4. Participated in "Tiranga Run" conducted by the Department of Sports, Deshbandhu College, University of Delhi in 2008-09.



Signature of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.