

# Curriculum Vitae

## Publications

1. Salman, M., Das R., *Dynamics of multi-sensitive non-autonomous systems with respect to a vector*, **Bulletin of the Malaysian Mathematical Sciences Society**, 47, 51 (2024), SCIE Journal with IF 1.2, Publisher: Springer, Country: England, <https://doi.org/10.1007/s40840-023-01644-6>
2. Das, R., Kumar, D., Salman, M., *Topological sensitivity and its stronger forms on semiflows*, **Bulletin of the Korean Mathematical Society**, 61 (2024), 247-262, SCIE Journal with IF 0.5, Publisher: Korean Mathematical Society, Country: South Korea, <https://doi.org/10.4134/BKMS.b230092>
3. Kumar, D., Salman, M., Das, R., *Topological sensitivity on hyperspaces*, **Bulletin of the Belgian Mathematical Society-Simon Stevin**, 29 (2022), 19–36, SCIE Journal with IF 0.5, Publisher: Project Euclid, Country: Belgium, <https://doi.org/10.36045/j.bbms.211024>
4. Salman, M., Das, R., *Remarks on sensitivity and chaos in non-autonomous dynamical systems*, **Journal of Difference Equations and Applications**, 28 (2022), 289–294, SCIE Journal with 1.1 IF, Publisher: Taylor & Francis, Country: England, <https://doi.org/10.1080/10236198.2022.2027394>
5. Vasisht, R., Salman, M., Das, R., *Variants of shadowing properties for iterated function systems on uniform spaces*, **Filomat**, 35 (2021), 2565–2572, SCIE Journal with 0.8 IF, Publisher: University of Niš, Country: Serbia, <https://doi.org/10.2298/FIL2108565V>
6. Salman, M., Das, R., *Hypercyclic operators for iterated function systems*, **Hacettepe Journal of Mathematics and Statistics**, 50 (2021), 483–491, SCIE Journal with 0.8 IF, Publisher: Hacettepe University, Country: Turkey, <https://doi.org/10.15672/hujms.716686>
7. Salman, M., Wu, X., Das, R., *Sensitivity of non-autonomous dynamical systems on uniform spaces*, **International Journal of Bifurcation and Chaos**, 31 (2021), 2150017 (12 pages), SCI Journal with 2.2 IF, Publisher: World Scientific, Country: Singapore, <https://doi.org/10.1142/S0218127421500176>
8. Salman, M., Das R., *Specification properties for non-autonomous discrete systems*, **Topological Methods in Nonlinear Analysis**, 55 (2020), 475-491, SCIE Journal with 0.7 IF, Publisher: Juliusz P. Schauder Center for Nonlinear Studies, Country: Poland, <https://doi.org/10.12775/TMNA.2020.006>
9. Salman, M., Das R., *Sensitivity and property P in non-autonomous systems*, **Mediterranean Journal of Mathematics**, 17, 128 (2020), 1–19, SCIE Journal with 1.1 IF, Publisher: Springer, Country: Switzerland, <https://doi.org/10.1007/s00009-020-01552-0>
10. Salman, M., Das R., *Multi-transitivity in non-autonomous discrete systems*, **Topology and its Applications**, 278 (2020), 107237, SCIE Journal with 0.6 IF, Publisher: Elsevier, Country: Netherlands, <https://doi.org/10.1016/j.topol.2020.107237>

11. Salman, M., Das R., *Furstenberg family and multi-sensitivity in non-autonomous systems*, **Journal of Difference Equations and Applications**, 25 (2019), 1755–1767, SCIE Journal with 1.1 IF, Publisher: Taylor & Francis, Country: England, <https://doi.org/10.1080/10236198.2019.1694013>
12. Salman, M., Das R., *Dynamics of weakly mixing non-autonomous systems*, **International Journal of Bifurcation and Chaos**, 29 (2019), 1950123 (11 pages), SCI Journal with 2.2 IF, Publisher: World Scientific, Country: Singapore, <https://doi.org/10.1142/S0218127419501232>
13. Salman, M., Das R., *Multi-sensitivity and other stronger forms of sensitivity in non-autonomous discrete systems*, **Chaos, Solitons & Fractals**, 115 (2018), 341–348, SCI Journal with 7.8 IF, Publisher: Elsevier, Country: England, <https://doi.org/10.1016/j.chaos.2018.07.031>

#### Participation in International or National Conferences/ Workshops/ Seminars

1. Two Days Workshop on **Mathematical Sciences for Viksit Bharat@2047** organized by Faculty of Mathematical Sciences, University of Delhi (April 12 – 13, 2024)
2. Workshop on **Typesetting Indian Languages using LaTeX** organized by Department of Mathematics, University of Delhi (Mar 21 – 23, 2024)
3. 69th Annual Conference of Bharat Ganita Parisad on **Recent Advances in Mathematics and Applications** organized by Department of Mathematics and Astronomy, University of Lucknow, Lucknow (Sept 24 –25, 2022)
4. International Conference on **Mathematical Analysis & Applications** organized by Department of Mathematics, NIT Jamshedpur, Jamshedpur (Nov 2 – 4, 2020)
5. **Real Analysis: From Elementary to Advanced** organized by Ramanujan College, University of Delhi, Delhi (Oct 25, 2019)
6. **Smooth and Homogeneous Dynamics** organized by International Centre for Theoretical Sciences, Bangalore (Sept 23 – Oct 4, 2019)
7. **Mini Symposium in Mathematics** organized by Deen Dayal Upadhyay, University of Delhi, Delhi (Feb, 22 – 23, 2019)
8. **National Research Scholar Seminar** organized by Department of Mathematics, University of Delhi, Delhi (Dec 28, 2018)
9. **International Workshop and Conference on Topology and Applications** organized by Rajagiri School of Engineering and Technology, Kochi (Dec 5 – 11, 2018)
10. **International Meet on Analysis** organized by Department of Mathematics, University of Delhi, Delhi (Nov 24, 2018)
11. **National Research Scholar Seminar** organized by Department of Mathematics, University of Delhi, Delhi (May 1 – 2, 2017)

#### Paper Presentations

1. **Stronger forms of sensitivity in uniformly convergent non-autonomous dynamical systems**, International Conference on Mathematical Analysis & Applications, Department of Mathematics, NIT Jamshedpur, Jamshedpur (Nov 2 – 4, 2020)
2. **Dynamics of multi-sensitive non-autonomous systems**, Smooth and Homogeneous Dynamics, ICTS, Bangalore (Sept 23 – Oct 4, 2019)
3. **Sensitivity and chaos in non-autonomous dynamical systems**, National Research Scholar Seminar, University of Delhi, Delhi (Dec 28, 2018)

<b>Editorial</b>	
<b>Reviewer</b>	
<ol style="list-style-type: none"> <li>1. Mathematical Reviews, American Mathematical Society</li> <li>2. Bulletin of the Malaysian Mathematical Sciences Society (SCIE Journal)</li> <li>3. Fractal and Fractional (SCIE Journal)</li> <li>4. Qualitative Theory of Dynamical Systems (SCIE Journal)</li> <li>5. Journal of Dynamical and Control Systems (SCIE Journal)</li> </ol>	
<b>Membership in Professional Bodies</b>	
<ol style="list-style-type: none"> <li>1. Interim member of the American Mathematical Society</li> <li>2. Member of the International Society of Difference Equations</li> <li>3. Life member of the Indian Mathematical Society (L/2020/19)</li> </ol>	
<b>Orientation/ Refresher Courses Attended</b>	
<ol style="list-style-type: none"> <li>1. <b>Online Induction Training/ Orientation Programme</b> for Faculty in Universities/ Colleges/ Institutions of Higher Education organized by TLC, Ramanujan College, University of Delhi (Mar 27 – April 23, 2024)</li> </ol>	
<b>Subjects Taught/Teaching</b>	
<p><b>Semester I :</b>  DSC 1: Algebra  GE: Fundamentals of Calculus  PS-I: Calculus &amp; Matrices (CBCS)  GE: Calculus (CBCS)</p> <p><b>Semester IV:</b>  DSC 12: Numerical Analysis  A4: Abstract Algebra</p> <p><b>SEC:</b>  Statistics with R  Programming using Python  Mathematical Modelling using Excel</p>	<p><b>Semester II:</b>  DSC 4: Linear Algebra  GE: Introduction to Linear Algebra  A2: Elementary Linear Algebra  PS-II: Calculus and Geometry (CBCS)  GE: Linear Algebra (CBCS)  BA(P)-II: Algebra (CBCS)</p> <p><b>Semester VI:</b>  DSE 4 (ii) Linear Programming &amp; Applications (CBCS)</p> <p><b>VAC:</b>  Vedic Mathematics II  Vedic Mathematics III  Vedic Mathematics IV</p>
<b>Software Knowledge</b>	
LaTeX, Mathematica, Matlab, MS Office, HTML, R	
<b>Academic Awards and Distinctions</b>	
<ol style="list-style-type: none"> <li>1. Awarded <b>Minor Research Grant</b> (Co-PI) under the Faculty Research Programme of the Institution of Eminence Scheme, University of Delhi (2024-25)</li> <li>2. Selected for <b>Post-Doctoral Fellow</b> in the Department of Mathematics, Indian Institute of Technology, Delhi (Mar, 2024)</li> <li>3. Awarded <b>Maulana Azad National Fellowship</b> for carrying out doctoral work (2019)</li> <li>4. Awarded <b>third position</b> in graduation (2014)</li> <li>5. Awarded <b>CBSE Scholarship</b> for graduation and post-graduation (2011-2016)</li> </ol>	

## Other Responsibilities

### **Co-Convener:**

- Work-load Committee, SPM College, University of Delhi (June 18, 2024 – Present)

### **Core Member:**

- Admission Committee, SPM College, University of Delhi (May 27, 2024 – Present)

### **Examiner:**

- Algebra and Calculus for B.A. (Pass), Part I, University of Delhi, Centenary Chance Examination (Oct 2022)
- Calculus and Geometry for B.Sc. Mathematical Sciences, Semester II, University of Delhi (April 18, 2022)
- Internal Examiner for SEC: Programming with Python, Semester I, Atma Ram Sanatan Dharma College, University of Delhi (Nov 2023)
- External Examiner for VAC: Vedic Mathematics (III), Semester III, Daulat Ram College, University of Delhi (Nov 2023)

### **Team Member:**

- NAAC Criteria 7, Ramjas College, University of Delhi (Nov 2, 2021 – Nov 13, 2022)

### **Vice-President:**

- Jubilee Hall Students' Union, University of Delhi (May 6, 2019 – Nov 22, 2021)

### **Tutorial:**

- Topological Dynamics for Semester Jan-May 2020, Department of Mathematics, University of Delhi
- Topology-I for Semester Jan-May 2019, Department of Mathematics, University of Delhi