


# Curriculum vitae

Title	Dr.	Name	Om Prakash Meena	Father Name	Mr. Chhotu Lal Meena	Photograph
Date of Birth			<b>02 July 1995</b>			
Designation			<b>Assistant Professor</b>			
Correspondence Address			<b>Department of Mathematics, Hansraj College, University of Delhi-110007</b>			
Residence Mobile			<b>+91-8287888011</b>			
Email			<b>opmeena@hrc.du.ac.in</b>			
Web-Page			<b>opmeenamcj@gmail.com</b>			
<b>Educational Qualifications</b>						
Degree			Institution			Year
Ph.D.			<b>Department of Mathematics, University of Delhi</b>			<b>2023</b>
PG			<b>Hansraj College, University of Delhi</b>			<b>2017</b>
UG			<b>Maharaja's College, University of Rajasthan</b>			<b>2015</b>
CSIR-JRF			<b>CSIR-JRF Mathematical Sciences, AIR-125, AIR-219, AIR-246</b>			<b>December-2017, June-2016, Dec-2016</b>
<b>Career Profile</b>						
<ol style="list-style-type: none"><li><b>October 10, 2022 - Till now:</b> Assistant Professor (Permanent): Hansraj College, University of Delhi, Delhi.</li><li><b>September 08, 2022 - October 09, 2022:</b> Assistant Professor (Permanent): Deshbandhu College, University of Delhi, Delhi.</li><li><b>July 20, 2018 - September 07, 2022:</b> Assistant Professor (Ad-Hoc): Deshbandhu College, University of Delhi, Delhi.</li><li><b>January 09, 2018 - July 19, 2018:</b> Assistant Professor (Ad-Hoc): Rajdhani College, University of Delhi, Delhi.</li></ol>						
<b>Areas of Interest/Specialization</b>						
Bio-Mathematics, Nonlinear Dynamics, Celestial Mechanics, Restricted Three-Body Problem, Restricted N-Body Problem.						
<b>Published / Communicated Research Papers</b>						
<ol style="list-style-type: none"><li><b>Om Prakash Meena</b>, Himanshu Aggarwal, Manas Lohani, Khush Shaw, Poonam Meena: On the periodic orbits in the Pseudo-Newtonian CR3BP with Kerr-like primaries. <i>Chaos Solitons and Fractals</i>, 201 (3), 117387, 2025. <a href="https://doi.org/10.1016/j.chaos.2025.117387">https://doi.org/10.1016/j.chaos.2025.117387</a></li><li><b>Meena, O.P.</b>, Lohani, M., Mishra, H. <i>et al.</i> Dynamic analysis of Lyapunov and Halo orbits in the Proxima Centauri system. <i>Eur. Phys. J. Plus</i> 140, 993 (2025). <a href="https://doi.org/10.1140/epjp/s13360-025-06936-3">https://doi.org/10.1140/epjp/s13360-025-06936-3</a></li><li><b>Om Prakash Meena</b>, Manas Lohani, Soham Sen, Deepesh Mishra, Rajiv Aggarwal: Application of Fourier series to the dynamics of a test particle in the CR3BP with an oblate primary;</li></ol>						

*International Journal of Non-linear Mechanics*, **172**, 105030, 2025. **SCI, SCOPUS**.

4. **Om Prakash Meena**, Prachi Sachan, Ram Pratap, Poonam Meena: Dynamics of periodic orbits in the Copenhagen problem with non-spherical primaries. *Astronomy and Computing*, **51**, 100932, 2025. **SCI, SCOPUS**.
5. **Om Prakash Meena**, Himanshu Aggaral, Harsh Mishra, Khush Shaw, Rajiv Aggarwal: Fourier Series Methodology for Exploring the Periodic Orbits in the CR3BP with Spherical Primaries. *Astronomy Reports*, **68**, 1317-1334, 2024. **SCI, SCOPUS**.
6. Md Sanam Suraj, Rajiv Aggarwal, Amit Mittal, **Om Prakash Meena**, Md Chand Asique : On the spatial collinear restricted four-body problem with non-spherical primaries ; *Chaos Solitons and Fractals*, 133 (2020),109609. **Impact Factor - 9.922, SCI, Elsevier**.
7. Md Sanam Suraj, Rajiv Aggarwal, Amit Mittal, **Om Prakash Meena**, Md Chand Asique : The study of the fractal basins of convergence linked with equilibrium points in the perturbed (N+1)-body ring problem; *Astronomische Nachrichten*, 341, (741-761), **2020. Impact Factor – 0.954, SCI**
8. Md Sanam Suraj, **Om Prakash Meena**, Rajiv Aggarwal, Amit Mittal, Md Chand Asique : On the periodic orbits around the collinear libration points in the SCR4BP with non-spherical primaries; *Non-linear dynamics*, **111**, 5547–5577 (2023). **Impact Factor- 5.741, SCI, Scopus, Springer. DOI: <https://doi.org/10.1007/s11071-022-08131-w>**
9. **Om Prakash Meena** , Md Sanam Suraj, Rajiv Aggarwal, Amit Mittal, Md Chand Asique: The study of periodic orbits in the spatial collinear restricted four-body problem with non-spherical primaries; *Non-linear dynamics*, **111**, 4283–4311 (2023). **Impact Factor- 5.741, SCI, Scopus, Springer. DOI: <https://doi.org/10.1007/s11071-022-08085-z>**

#### **Under Review:**

10. **Meena, O. P.**, Aggarwal, H., Shaw, K., Meena, P. (2024). Radiation-Driven Dynamics in the Restricted Three-Body Problem: A Fourier Series Approach. *International Journal of Non-linear Mechanics* (**Minor Revision**).

#### **Administrative Assignments**

1. Convener, Seminar Society, Department of Mathematics, Hansraj College (2023-24)
2. Departmental Nominee, Mentor-Mentee Team, Hansraj College (2023-24)
3. Member, Sports Committee, Hansraj College (2023-24)
4. Member, Canteen Committee, Hansraj College (2023-24)
5. Member, Website Committee, Department of Mathematics, Deshbandhu College
6. Member, Discipline Committee, Deshbandhu College
7. Worked as Member, Examination Committee OBE of Deshbandhu College, University of Delhi, in the Academic Sessions 2020-21, 2021-22.
8. Worked as Member in Admission Committee of Deshbandhu College, University of Delhi, in the Academic Sessions 2020-2021, 2021-22.
9. Worked as an Evaluator for State Level Champ (Level-II), Delhi of Vidyarthi Vigyan Manthan – India’s Largest Science Talent Search for New India Using Digital Devices (VVM) 2019-2020, organized by Vijnana Bharati (VIBHA) in association with Vigyan Prasar, Department of Science and Technology, Govt. of India and National Council of Education Research and Training (NCERT), Ministry of Human Resource Development, Govt. of India held on Sunday, 19th January, Deshbandhu College (University of Delhi) Kalkaji, New Delhi - 110019 at Deshbandhu College, University of Delhi, Kalkaji, New Delhi.
10. Worked as Member in the Organizing Committee of the Annual Mathematics Festival “SAMUCHAYAM” of the Department of Mathematics, Deshbandhu College, University of

Delhi since 2019.  
11. Worked as a convener and examiner in paper's setting of undergraduate examinations, DU.

### Subjects Taught:

Calculus & Geometry	Real Analysis	Ordinary Differential Equations	Calculus	
Transportation and network flow problem	Calculus and Metrics	LaTeX, Beamer & Ps-Tricks	Mathematica, Excel, HTML	
Riemann Integrals	Elementary Linear Algebra	Discrete Mathematics	Complex Analysis	
Software with R				

### Participation as Paper/Poster Presenter:

1. **Presented a talk** at the "12th Conference on Nonlinear Systems and Dynamics (CNSD 2019)" held at the Indian Institute of Technology Kanpur from 12th to 15th December 2019.
2. **Presented a research article** in the "37th Annual National Conference of The Mathematical Society Banaras Hindu University on Modern Mathematics and its Applications (MMA-2022)", 29-30 January 2022, at Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi.
3. **Presented a research article** in the IAU Symposium 364 in the Multi-scale (time and mass) dynamics of space objects at Romania, October 18-22.
4. **Presented a research article** in the "International Conference on Applicable Mathematics" held at Ramanujan College, the University of Delhi from 19th to 21st December 2019.

### Faculty Development Programme/Faculty Induction Programme Attended:

1. I have successfully completed the One-Month Blended Mode Faculty Induction Programme organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, Delhi, from 01<sup>st</sup> December 2022 to 31<sup>st</sup> December 2022.
2. I have successfully completed the One-Month Online Mode Faculty Induction Training/Orientation Programme organized by Teching Learning Centre, Ramanujan College, University of Delhi, Delhi, from 20 September 2022 to 19 October 2022.
3. I have successfully completed the One-Week Interdisciplinary Online Faculty Development Programme on "Graph Theory and its applications" organized by Deshbandhu College, the University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, New Delhi, from 15th September 2021 to 21 September 2021.
4. I have successfully completed the One-Week Online Faculty Development Programme on "Mathematical Analysis and its Applications" organized by Vivekananda College, the University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, New Delhi, from 26th July 2021 to 31 July 2021
5. I have successfully completed One-Week Online Faculty Development Programme on "Development and Delivery of MOOCs and E-Content" jointly organized by the Central University of Haryana, Mahendergarh under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) and IQAC, Deshbandhu College, University of Delhi, New Delhi, from 26th June 2020 to 1st July 2020.
6. I have successfully completed the Two Weeks Faculty Development Programme

on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" from April 20 to May 06, 2020.

7. Worked as a Member, of the Organizing Committee and participated in six days Teacher's Enrichment Workshop (TEW) on Differential Equations and its applications held jointly by the National Centre for Mathematics and Deshbandhu College, the University of Delhi on 15<sup>th</sup> -28<sup>th</sup> March 2021.
8. Worked as a Member, of the Organizing Committee and participated in six days Teacher's Enrichment Workshop (TEW) on Differential Equations, Mathematical Modeling and Analysis (DEMMA) held jointly by the National Centre for Mathematics and Deshbandhu College, the University of Delhi on 24<sup>th</sup> -29<sup>th</sup> July 2018.

### **Seminars/ Workshops/ Conferences Organizing or Attended:**

1. Participated in the National Workshop on "Celestial Mechanics and Dynamical Astronomy" organized by the Department of Mathematics, Central University of Rajasthan, Ajmer, Rajasthan, India, on January 06-08, 2023.
2. Worked as 'Member of Organizing Committee' also Attended & Participated as an Active Member in the 'National Webinar' on "Some Applications of Linear Algebra in Computer Science" organized by "Department of Mathematics and IQAC, Deshbandhu College, the University of Delhi" held on 5<sup>th</sup> September 2020.
3. Worked as 'Member of Organizing Committee' also Attended & Participated as an Active Member in the 'National Webinar' on "Geometry: Great Contribution of India(History of Indian Mathematics)" organized by "Department of Mathematics and IQAC, Deshbandhu College, the University of Delhi" held on 5<sup>th</sup> November 2020.
4. Worked as 'Member of Organizing Committee' also Attended & Participated as an Active Member in the 'National Webinar' on "A Journey From Integer to Rings" organized by "Department of Mathematics and IQAC, Deshbandhu College, the University of Delhi" held on 13<sup>th</sup> October 2020.
5. Worked as 'Member of Organizing Committee' also Attended & Participated as an Active Member in the 'National Webinar' on "Introduction to Wolfram Mathematica" organized by "Department of Mathematics and IQAC, Deshbandhu College, the University of Delhi" held on 7<sup>th</sup> September 2020.
6. Worked as 'Member of Organizing Committee' also Attended & Participated as an Active Member in the 'National Webinar' on "Fractals and Its Applications" organized by "Department of Mathematics and IQAC, Deshbandhu College, the University of Delhi" held on 25<sup>h</sup> August 2020.
7. Worked as 'Member of Organizing Committee' also Attended & Participated as an Active Member in the 'National Webinar' on "The Evolution of Single Step Methods to Solve Initial Value Problems" organized by "Department of Mathematics and IQAC, Deshbandhu College, the University of Delhi" held on 19<sup>h</sup> January 2020.
8. Participated in the R training organized at Birla Institute of Technology Mesra, Noida Campus in the January 2020 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.
9. Participated in the 'International Conference on "Human Rights" organized by "The Shaikshik Foundation on Association with Deshbandhu College," University of Delhi, and Dr. Ambedkar International Centre, New Delhi, held on 22-23 February 2020.
10. Participated in the 'National Seminar' on "उद्योग और पर्यावरण के लिए गणितीय विज्ञान में उभरते रुझान: तकनीकी हिन्दी शब्दावली का प्रयोग" organized by "Commission for Scientific and Technical Terminology" held on 27-29 January 2020.
11. Worked as 'Member of Organizing Committee' as an Active Member, in Two Day "National Conference on Pharmacovigilance: Advancements in the safe Drug Development" Organized By "Department of Biochemistry, Deshbandhu College, University of Delhi. (January 16-17, 2020).

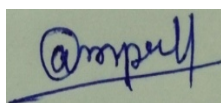
12. Participated in the ‘International Conference on “Bhartiya Women Past, Present, Future” organized by “Shaikshik Foundation on Association with Deshbandhu College,” University of Delhi, on 23-24 February 2019.
13. Worked as ‘Member Organizing Committee’ also Attended & Participated as an Active Member, in Three Day “International Conference on Physics, Society and Technology-2019” Organized By “Department of Physics, Deshbandhu College, University Of Delhi. (January 17-19, 2019).
14. Participated in the National Workshop on “Celestial Mechanics and Dynamical Astronomy” organized by the Department of Mathematics, Central University of Rajasthan, Ajmer, Rajasthan, India, on 07-11 January 2019.
15. Participated in the “National Research Scholar’s Seminar” Organized by the Department of Mathematics, University of Delhi, on 28 December 2018.
16. Worked as a volunteer in the “International Conference on Topology and Geometry” organized by the Department of Mathematics, University of Delhi, During November 23-24, 2017.

### **Awards, Fellowships and Distinctions:**

- CSIR-JRF, December 2016 under the CSIR fellowship scheme.
- Chief Minister's Higher Education Scholarship Scheme, Rajasthan awarded in 2012-15.
- Inspire awarded in 12<sup>th</sup>.

### **Research Score:**

- Research Interest Score : 72.1
- Citations : 59
- h-index : 4
- i10 index : 1

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**Signature.**