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

Title	Mr.	First Name	**Dinesh**	Last Name	**Kumar**	Photograph
Designation		**Assistant Professor**				
Address		A-106, 2nd Floor, Bunker Colony, Ashok Vihar, Phase-IV, Delhi-110052				
Phone No. Office						
Residence						
Mobile		**+91-8586070814**				
Email		**dineshk8392@gmail.com** **dineshkumar@db.du.ac.in**				
Web-Page		sites.google.com/view/dineshdbc/home				

Educational Qualifications

Degree	Institution	Year
Ph.D.	**University of Delhi, Delhi**	**Pursuing**
M.Phil.	**University of Delhi, Delhi**	**2016**
PG	**Mahatma Jyotiba Phule Rohilkhand University, Bareilly**	**2013**
UG	**Mahatma Jyotiba Phule Rohilkhand University, Bareilly**	**2011**

Career Profile

Position	Institution	Duration
Assistant Professor (Adhoc)	Deshbandhu College, University of Delhi	August 09, 2017 to present
Assistant Professor (Adhoc)	Shyama Prasad Mukherji College (For Women), University of Delhi	July 28, 2016 to August 08, 2017

Administrative Assignments

Areas of Interest/Specialization

Celestial Mechanics, Space Dynamics

Subjects Taught

Algebra	Computer Algebra Systems and Related Software	Riemann Integration and Series of Function	Calculus and Geometry
Multivariate Calculus	LATEX and HTML	Numerical Analysis	Partial Differential Equations

Publications Profile

- **Research papers published in Refereed/Peer Reviewed Journals**

1. **Dinesh Kumar**, Rajiv Aggarwal, Restricted 2+2 body problem with oblateness and straight segment. Accepted, *Journal of Astrophysics and Astronomy*, (2022).

2. Rajiv Aggarwal, **Dinesh Kumar** and Bhavneet Kaur, Stability and zero velocity curves in the perturbed restricted problem of 2+2 bodies, *Applications and Applied Mathematics: An International Journal*, **16**(2): 1010--1028 (2021).

3. **Dinesh Kumar**, Rajiv Aggarwal and Bhavneet Kaur, On the perturbed restricted 2+2 body problem when the primaries are non-spherical, *Few Body Systems*, **62**: 97, (2021).

4. Bhavneet Kaur, Shipra Chauhan and **Dinesh Kumar**, Outcomes of aspheric primaries in Robe's circular restricted three-body problem, *Applications and Applied Mathematics: An International Journal*, **16**(1): 463--480, (2021).

5. Bhavneet Kaur, Shipra Chauhan and **Dinesh Kumar**, On sensitivity of the stability of equilibrium points with respect to the perturbations, *Journal of Astrophysics and Astronomy*, **42**(1): 4, (2021).

6. Bhavneet Kaur, Sumit Kumar, Shipra Chauhan and **Dinesh Kumar**, Stability analysis of circular Robe's R3BP with finite straight segment and viscosity, Applications and Applied Mathematics: An International Journal, **15**(2): 1072--1090, (2020).

7. **Dinesh Kumar**, Rajiv Aggarwal and Bhavneet Kaur, An insight on the restricted problem of 2+2 bodies with straight segment, *Astronomical Notes*, **341**(6-7): 669--683, (2020).

8. Bhavneet Kaur, **Dinesh Kumar** and Shipra Chauhan, A study of small perturbations in the Coriolis and centrifugal forces in RR3BP with finite straight segment, Applications and Applied Mathematics: An International Journal, **15**(1): 77--93, (2020).

9. Bhavneet Kaur, **Dinesh Kumar**, Shipra Chauhan, Effect of perturbations in the Coriolis and centrifugal forces in the Robe-finite straight segment model with arbitrary density parameter, *Astronomical Notes*, **341**: 32--43, (2020).

10. **Dinesh Kumar**, Bhavneet Kaur, Shipra Chauhan and Vinay Kumar, Robe's restricted three-body problem when one of the primaries is a finite straight segment, *International Journal of Non-Linear Mechanics*, **109**: 182--188, (2019).

11. Shipra Chauhan, **Dinesh Kumar** and Bhavneet Kaur, Restricted three-body problem under the effect of Albedo when smaller primary is a finite straight segment, *Applications and Applied Mathematics: An International Journal*, **13**(2): 1200--1215, (2018).

Conference Organization/Presentations
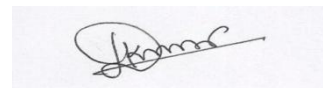
- **Participation as Paper Presenter**
1. Presented a paper entitled **"Perturbed restricted problem of 2+2 bodies with straight segment and Oblateness"**, in the International Virtual Conference on Mathematical and Computational Models - ICMCM'21, October 29-30, 2021

2. Presented a paper entitled **"Restricted problem of 2+2 bodies under the effect of oblateness and straight segment"**, in the IAU Symposium 364 on Multi-scale (time and mass) dynamics of space objects, October 18-22, 2021.

3. Presented a paper entitled **"Unveiling the effect of perturbations in the Robe-Finite Straight Segment"** in the International Conference on Physics, Society and Technology-2019 (ICPST-2019), January 17-19, 2019.

4. Presented a paper entitled **"Regions of motion in the R3BP with finite straight segment and oblateness"** in the International Conference on Mathematics and Applications (ICMA-2017), April 26-28, 2017.

5. Presented a paper entitled **"Combined effects of Finite Straight Segment and Oblateness on the Libration Points in the Restricted-Three Body Problem"** in the International Conference on Mathematical Sciences Interface Humanity (ICMSIH-2016), 7-8 October, 2016.

Faculty Development Programme Attended

1. Two week "Refresher Course in Applicable Mathematics", December 15-29, 2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Deshbandhu College, University of Delhi.
2. One week (Online) Interdisciplinary Faculty Development Programme on "Graph Theory and its Applications", September 15-21, 2021 organized by Deshbandhu College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi.
3. One week Online Faculty Development Programme on "Development and Delivery of MOOCs and E-Content", June 26-July 01, 2020 jointly organized by Central University of Haryana, Mahendergarh and Deshbandhu College, University of Delhi, New Delhi.
4. Two weeks Faculty Development Programme on ``Managing online classes and co-creating MOOCS:2.0'', May 18-June 03, 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

- **Qualified CSIR-UGC JRF, December 2016.**
- **Qualified CSIR-UGC NET, December 2015.**
- **Qualified GATE, 2015 (Mathematics).**

Association With Professional Bodies

- *Memberships*
  Life Membership of Indian Science Congress

Other Activities

1. Worked as a Coordinator in the INSA \& NCM joint online Teacher's Enrichment Workshop on Differential Equations and its Applications held at Deshbandhu College, University of Delhi, New Delhi, during March 15-28, 2021.
2. Worked as a member, Programme Committee in the three-Day International Conference on Advances in Differential Equations \& Mathematical Modelling (IC-ADE-MM-2020) held online at School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi-110067, India during December 18-20, 2020.
3. Worked as a member, organizing committee in the National webinar on Introduction to Wolfram Mathematica, September 7, 2020 organized by the Department of Mathematics, Deshbandhu College, University of Delhi.
4. Worked as a member, organizing committee in the National webinar on Fractals and Its applications in Real Life, August 25, 2020 organized by the Department of Mathematics, Deshbandhu College, University of Delhi.
5. Worked as a member, organizing committee in the Teacher's Enrichment Workshop on Differential Equations, Mathematical Modeling \& Analysis, July 24-29, 2018 held at Deshbandhu College, University of Delhi.
6. Worked as Organizing Secretary in the workshop on LaTeX organized by the Department of Mathematics, SPM College, University of Delhi on September 27, 2016.

- **Conference/Workshop/Seminar Attended**:

1. National Workshop on Groups & Geometry, August 02-03, 2019 organized by Department of Mathematics, Shyama Prasad Mukherji College for Women, University of Delhi.
2. International Conference on Bhartiya Women Past, Present and Future, February 23-24, 2019 organized by Shaikshik Foundation in association with Deshbandhu College, Delhi University.
3. Workshop on Celestial Mechanics \& Dynamical Astyronomy (CMDA 2019), January 07-11, 2019 organized by Department of Mathematics, Central University of Rajasthan.
4. National Research Scholars' Seminar, December 28, 2018 organized by the Department of Mathematics, University of Delhi.
5. Teacher's Enrichment Workshop on Differential Equations, Mathematical Modelling \& Analysis, July 24-29, 2018 held at Deshbandhu College, University of Delhi.
6. Workshop on ``Technical Terminology in Science teaching", October 26-27, 2017 organized by Commission for Scientific and Technical Terminology at Deshbandhu College, University of Delhi.
7. National Conference on Advances in Applied Mathematics and Statistics, September 7-8, 2017 organized by Department of Mathematics, Mata Sundri College for Women, University of Delhi.
8. National Workshop on Mathematical Modelling and Computational Techniques using Mathematica, March 30-31, 2017 organized by Department of Mathematics, Zakir Husain Delhi College, University of Delhi.
9. Faculty Development Programme on Statistical Computing Software `R', March 24, 2017 organized by Department of Mathematics, Keshav Mahavidyalaya, University of Delhi.
10. Faculty Development Programme on Computer Algebra System and LaTeX, February 16-17, 2017 organized by Department of Mathematics, Shyam Lal College, University of Delhi.
11. Faculty Development Programme Workshop on LaTeX, September 27, 2016 organized by Department of Mathematics, S.P.M. College, University of Delhi.
12. Short Term Course on Dynamical Systems: Theory $\&$ Applications, June 26-30, 2016 organized by Department of Applied Mathematics, ISM, Dhanbad.
13. Programme on ``Recent Trends in Technical Terminology in Science", February 16-17, 2016 organized by Commission for Scientific and Technical Terminology at Sri Aurobindo College, Delhi University.
14. One-day workshop on ``Intellectual Property Rights for Researchers" held on December 14, 2015 at Cluster Innovation Centre, University of Delhi.
15. Research Scholar Seminar organized by the Department of Mathematics, University of Delhi, Delhi during February 23-24, 2015.
16. Author Workshop conducted by Elsevier in association with University of Delhi at New Delhi on September 22, 2014.

Updated on: May 9, 2022

Signature