




Faculty Details Proforma

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|---|---|-------------------|-----------------|------------------|--------------|---|
| Title | Dr. | First Name | Virendra | Last Name | Kumar | Photograph |
| Designation | Assistant Professor | | | | |  |
| Address | Daulat Ram College, Patel Marg 4 | | | | | |
| Phone No. Office | | | | | | |
| Residence | S-52 Noida Sector-12, UP | | | | | |
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| Educational Qualification Ph.D | | | | | | |
| Degree | Institution | | | | Year | |
| B.Sc. | CCS University Meerut | | | | 2006 | |
| M.Sc.(Mathematics) | CCS University Meerut | | | | 2008 | |
| M.Phil.(Mathematics) | University of Delhi, Delhi | | | | 2011 | |
| Ph.D (Mathematics) | University of Delhi, Delhi | | | | 2025 | |
| Career Profile | | | | | | |
| <ul style="list-style-type: none">• Assistant Professor (Permanent), Daulat Ram College, University of Delhi since Oct 14, 2022.• Assistant Professor (Ad Hoc), Daulat Ram College, University of Delhi from Jan. 24, 2011-Oct 13, 2022. | | | | | | |
| Administrative Assignments | | | | | | |
| <ul style="list-style-type: none">• Students Grievances Redressal Committee Convenor, 2024-2025.• UG/PG Admission Nodal Officer, Session 2023-2024.• Worked in Library Committee, 2023• Worked in Canteen Committee, 2023• Core Committee member in UG/PG admissions, 2022-2023• B.Sc(Hons.) Admission In-Charge, 2022-2023. | | | | | | |
| Areas of Interest / Specialization | | | | | | |
| Numerical Methods, Differential Equations, Celestial Mechanics and Space Dynamics | | | | | | |

Subjects Taught (in the last three years)

- ❖ Differential Equations and Mathematical Modeling
- ❖ Partial Differential Equations
- ❖ Numerical Methods
- ❖ Linear Transformation & Network
- ❖ Latex & HTML
- ❖ Basic IT Tools

Research Guidance

NA

Publications Profile (in the last three years)

1. Sushil Yadav, Mukesh Kumar, and **Virendra Kumar**. "Resonant curve of geo-synchronous satellite including effect of earth's equatorial ellipticity and resistive force using perturbations technique." *New Astronomy* 86 (2021): 101573.2.
2. Sushil Yadav, **Virendra Kumar**, and Rajiv Aggarwal. "Effect of Earth's Equatorial Ellipticity on the Resonant Curve and Phase Portrait of Geo-centric Satellite Under the Gravitational Effect of the Earth-Moon-Sun System by Using Unperturbed Solution." *Few-Body Systems* 63, no. 2 (2022): 41.3.
3. Sushil Yadav, **Virendra Kumar**, and Mukesh Kumar. "Analysis of resonant curves and phase portrait in the earth-moon system by using its unperturbed solution and earth's equatorial ellipticity." *New Astronomy* 92 (2022): 101716.
4. Sushil Yadav, **Virendra Kumar**, and Rajiv Aggarwal. "Resonant curves of geo-centric satellite under the gravitational effect of the Earth-Moon-Sun system including Earth's equatorial ellipticity and resistive force using unperturbed solutions." *Advances in Space Research* 70, no. 11 (2022): 3340-3361.
5. Sushil Yadav, Mukesh Kumar, and **Virendra Kumar**. "Analysis of Resonant Curve and Phase Portrait Due to Earth's Equatorial Ellipticity In the Earth-Moon System Using Perturbation Technique." *Journal of Dynamical Systems and Geometric Theories* 20, no. 2 (2022): 275-298.
6. Sushil Yadav, Mukesh Kumar, and **Virendra Kumar**. "(R2033) Resonant curve due perturbations of GeoSynchronous Satellite including effect of earths equatorial ellipticity" *Applications and applied Mathematics: an international journal (AAM)* 1,(18) 2023: 1932-9466.

Conference Organization / Presentation (in the last three years)

1. Participated and presented paper "*Numerical Methods, Differential Equations, Celestial Mechanics and Space Dynamics*" in the international conference on Advances in Pure & Applied Mathematics (ICAPAM-2024) organized by Shyam Lal College, University of Delhi, feb. 2024.
2. Participated and presented paper in the international conference on "*Recent Trends in Applied Physical Sciences Using Machine Learning Techniques ICRT-2023*" organized by Womenin STEM, Department of Applied Sciences, 2023.
3. Participated and presented paper "*Analysis of Resonant Curves of Geo-centric Satellite under the Gravitational effect of the Earth-Moon-Sun system and Earth's Equatorial Ellipticity by using Unperturbed Solution*" in the International Multidisciplinary Conference on Current Research Trends-2022.
4. Participated and presented paper "*Analysis of Resonant Curves in the Geo-centric Satellite due to Earth's Equatorial Ellipticity*" presented in the International Conference on Frontier Industrial and Applied Mathematics organized by Department of Mathematics, Sant Longowal Institute of Engineering and Technology, Longowal, 2021.

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

- Awarded Rajiv Gandhi National Fellowship in M.Phil (Mathematics) from 2009-2011.
- Qualified NET-JRF exam, June 2010.

Association with Professional Bodies**Other Activities (in last three years)**

1. Successfully completed **FIP** with “**Grade-A**” One-Month Online National Faculty Induction Programme/Orientation Course jointly organized by Daulat Ram College, University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education, 25th February to 27th March 2023.
2. Successfully completed **FDP** with “**Grade-A+**” online Inter-Disciplinary two-week Refresher Course in “Managing Online Classes & Co- creating MOOCS 25.0” from 07 – 21 April, 2023.