



**MAHARAJA AGRASEN
COLLEGE**
University of Delhi
VASUNDHARA ENCLAVE, DELHI-110096



Curriculum Vitae of Faculty Members

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|---|----------------------------|----------------------|--------------------------|-----------------------------|----|
| First Name | Sushil | Last Name | Yadav | | |
| Designation | Assistant Professor | Department | Mathematics | | |
| Date of Birth | 05-10-1973 | Date of Joining | 22-11-2002 | | |
| Residential Address (Optional) | | | | | |
| Contact No | 9015650765 | Alternate Contact No | | | |
| Email Id: | syadav@mac.du.ac.in | | | | |
| Education | | | | | |
| Subject | Institution | Year | Details | | |
| Ph.D | University of Delhi, Delhi | 2015 | Applied Mathematics | | |
| M.Phil | University of Delhi, Delhi | 1997 | Applied Mathematics | | |
| Masters | University of Delhi, Delhi | 1994 | M.A. Mathematics | | |
| Graduation | University of Delhi, Delhi | 1991 | B.A.(Hons.) Mathematics | | |
| Any other | | | | | |
| Career Profile (in reverse chronological order) | | | | | |
| Organization/ Institution | Post Held | Department | Adhoc/Temp/ Permanent | From | To |
| Maharaja Agrasen College, University of Delhi | Assistant Professor | Mathematics | Permanent | 22-11- 2002 (onwards) | |

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|--|----------|-------------|-------|----------------|--------------------|
| A.R.S.D. College, University of Delhi | Lecturer | Mathematics | Adhoc | 29-08- 2000 | 22- 11- 2002 |
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Administrative Assignments if any (kindly mention only statutory posts)

Research Guidance

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|---|------------------|
| 1. Supervision of awarded Doctoral Thesis | (no.) N.A |
| 2. Supervision of Doctoral Thesis, under progress | (no.) 03 |
| 3. Supervision of awarded M.Phil dissertations | (no.) N.A |
| 4. Supervision of M.Phil dissertations, under progress | (no.) N.A |

Details of Published Research Papers, Books, Monographs, Reviews, Chapter in Books, Translations and Creative Positions held

| Year of Publication | Title | ISBN No | Paper / Book / Article | Publisher | Author / Co-Author |
|---------------------|--|----------------|------------------------|---|--------------------|
| 2013 | Resonance in a geo-centric satellite due to earth's equatorial ellipticity | ISSN 0004–640X | Research Paper | Astrophysics and Space Science, Springer, SCI, Scopus | First Author |
| 2013 | Resonance in the earth-moon system around the sun including earth's equatorial ellipticity | ISSN 0004–640X | Research Paper | Astrophysics and Space Science, Springer, SCI, Scopus | First Author |

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|------|--|-------------------------|----------------|--|--------------|
| 2013 | Resonance in a geo-centric synchronous satellite under the gravitational forces of the sun, the, moon and the earth including earth's equatorial ellipticity | ISSN 0004–640X | Research Paper | Astrophysics and Space Science, Springer, SCI, Scopus | Co-Author |
| 2014 | Perturbations of a geo-centric synchronous satellite with resonance, | ISSN 0004–640X | Research Paper | Astrophysics and Space Science, Springer, SCI, Scopus | First Author |
| 2016 | Resonance in the perturbations of a synchronous satellite due to angular rate of the earth-moon system around the sun and the earth's rotation rate | . ISSN. 2312-7414. | Research Paper | International Journal of Advanced Astronomy, Science Publication Corporation | First Author |
| 2016 | Perturbed Robe's restricted problem of 2+2 bodies when the primaries form a Roche ellipsoid triaxial system | ISSN (online) 2169–0057 | Research Paper | Journal of Dynamical Systems and Geometric Theories, TARU Publication | Co-Author |
| 2018 | Robe's restricted problem of 2+2 bodies with a Roche ellipsoid-triaxial system | ISSN (online) 2195–0571 | Research Paper | Journal of Astronaut Science, Springer | Co-Author |
| 2019 | Resonance in the motion of a Geo-Centric Satellite due to Poynting Robertson Drag and Equatorial Ellipticity of the Earth | ISSN (online) 1932–9466 | Research Paper | Applications and Applied Mathematics (AAM): An International Journal | Co-Author |

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|--|---|------------------------|----------------|---|--------------|
| 2019 | Existence and Stability of Equilibrium Points in the Problem of a Geo-Synchronous Satellite including Earth's Equatorial Ellipticity | ISSN (online)1813-7385 | Research Paper | Non-linear Dynamics and Systems Theory. An International Journal of Research and Surveys InforMath Publishing Group | First Author |
| 2019 | Resonance in the motion of a Geo-Centric Satellite due to Poynting Robertson Drag and Oblateness of the Earth | ISSN (online)1813-7385 | Research Paper | Non-linear Dynamics and Systems Theory. An International Journal of Research and Surveys InforMath Publishing Group | Co-Author |
| 2019 | Thermo-solute natural convection with heat and mass lines in a uniformly heated and soluted rectangular enclosure for low Prandtl number fluids | ISSN 1290-0729 | Research Paper | International Journal of Thermal Sciences, Elsevier, SCI (E) Scopus | Co-Author |
| 2020 | The unpredictability of the basins of attraction in photogravitational Chermnykh's problem | ISSN 0004-640X | Research Paper | Astrophysics and Space Science, Springer, SCI, Scopus | Co-Author |
| Participation in conferences, seminars, workshops, refreshers, orientation courses attended, summer institutes etc. | | | | | |
| State/National International | Title | | Organization | | Period |

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|---------------|--|--|---|
| State | Refresher Course Mathematics | Jamia Millia Islamia, New Delhi | Three Week July 10-30, 2007 |
| State | Refresher Course Mathematics and Operational Research | CPDHE, Delhi University | Three Week December 13, 2010-January 4, 2011 |
| National | Presented Research Paper in National Seminar for Research Scholar | Department of Mathematics, University of Delhi, Delhi | Sep. 20-21, 2013 |
| National | Presented Research Paper in National Conference on “Advances in Applied Mathematics and Statistics” | Mata Sundri college for Women, University of Delhi, Delhi | Sep. 7-8, 2017 |
| International | Presented Research Paper in International conference on “Physics, Society and Technology-2019” | Deshbandhu College, University of Delhi, Delhi | Jan. 17-19, 2019 |
| National | Presented Research Paper in National Seminar | Commission for Scientific and Technical Terminology Department of Higher Education, MHRD | Jan. 27-29, 2020 |
| State | Workshop on Moocs, e-Content Development and Open Educational Resources (OER) | UGC- HRDC, JNU, Delhi | One Week March 18-23, 2019 |
| State | Teacher Enrichment Workshop on Algebra and it’s Applications | National Centre for Mathematics | One Week May 6-11, 2019 |
| State | Online Short-Term Course on “Essential Tools in Optimization” | Department of Mathematics, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (An Institute of National Importance- Under MHRD, Govt. of India) | One Week June 25-29, 2020 |
| International | Presented Research Paper in International Conference (Online) on “Recent Trends in Mathematics and its application to Graphs, Networks and Petri-Nets” | School of Computational and Integrative Sciences, JNU and Vijnana Parishad of India (Society for Application of Mathematics) | One Week July 20-24, 2020 |

| Research Projects (Major Grants/Research Collaboration): N.A. | | | | |
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| Project Investigator | Awards and Distinctions | | Association with Professional Bodies | |
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| Public Service/University Service/Consulting Activity: N.A. | | | | |
| Professional Societies Memberships <ol style="list-style-type: none"> 1. Ramanujan Mathematical Society 2. International Astronomical Union (IAU), (Junior membership) | | | | |
| Projects /Collaborations: N.A. | | | | |
| Title of the Project | Major/Minor | Funding Agency | Status | Level (International, National, State, University, College) |
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I certify that the information given above is correct and factual to the best of my knowledge.

Date: August 26, 2020

Signature: Dr. Sushil Yadav