



Shivaji College Faculty Details Proforma



| Title | Dr. | First Name | Vandana | Last Name | | Photograph |
|-----------------------------------|-----|--|---------|-----------|-------------|--|
| | | | | | |  |
| Designation | | Assistant Professor | | | | |
| Address | | | | | | |
| Office Phone No. | | N.A. | | | | |
| Residence | | N.A. | | | | |
| Mobile | | 9910926377 | | | | |
| Email | | vandanarajpal.math@gmail.com | | | | |
| Web-Page | | | | | | |
| Educational Qualifications | | | | | | |
| Degree | | University/Institute | | | Year | |
| Ph.D. | | Faculty of Mathematical Sciences, Delhi University | | | 2014 | |
| M.Phil./M.Tech. | | Faculty of Mathematical Sciences, Delhi University | | | 2011 | |
| PG | | Indian Institute of Technology, Delhi | | | 2009 | |
| UG | | Acharya Narendra Dev College, Delhi University | | | 2007 | |
| Any Other Qualification | | 1. CSIR NET JRF (qualified in 2008). 2. GATE (Graduate Aptitude test in | | | | |

| | | |
|---|--|--|
| | Engineering) with All India Rank 126, qualified in 2009. | |
| Career Profile | | |
| <ol style="list-style-type: none"> 1. Assistant Professor (on permanent basis) at Shivaji College from 20th March, 2014 to Present. 2. Assistant Professor (on ad-hoc basis) at Mata Sundri College from 10th November 2010 to 19th March 2014. 3. Junior Research Fellow of CSIR from 18th August 2009-18 October, 2010. | | |
| Administrative Assignments | | |
| <p>College-wide</p> <ol style="list-style-type: none"> 1. Organized (Co-Convenor) a Science Academies' Lecture workshop on "Theory of Equations" from 16-17 October, 2014 in Shivaji College. 2. Organized a seminar on "Mathematics and Statistics" on 12 March, 2018 in Shivaji College. 3. Member of National Assessment and Accreditation Council committee of Shivaji College. 4. Member of Admission Committee 5. Worked as Department Teacher-in-Charge from 01st April, 2015-31st March, 2016. 6. Member of Cultural Committee 7. Member of Garden Committee 8. Member of Women Development cell <p>University-wide</p> <ol style="list-style-type: none"> 1. Conducted tutorial in Advanced Training in Mathematics Schools Instructional School for Teachers in Group Theory during 3 -15 June, 2013 at the Department of Mathematics, University of Delhi. 2. Local organizer of a 14th Discussion Meeting on Harmonic held at department of Mathematics, University of Delhi during 07-09 December, 2015. 3. Local organizer of an International Workshop on Operator Spaces held at department of Mathematics, University of Delhi during 10-12 December, 2015. 4. Member of Committee for the Revision of B.Sc(H) Mathematics course, Delhi University, for the session 2018. | | |
| Areas of Interest/Specialisation | | |
| Functional Analysis, Operator spaces, Operator Algebras. | | |
| Subjects Taught | | |

| |
|---|
| Algebra (Group Theory, Ring Theory and Vector Spaces), Analysis (Real and Riemann) Calculus Probability and Statistics Building Mathematical Ability Business Mathematics (For B.Com(H) Semester III) Mathematics(For B.El.Ed. 2 nd and 3 rd Year) |
| Innovation Project/Research Projects (Major Grants/Research Collaboration) |
| N.A. |
| Publications Profile (Research Papers/Books) |
| <ol style="list-style-type: none">1. Symmetry and quasi-centrality of the operator space projective tensor product, joint work with A. Kumar, Arch. Math. 99 (2012), 519529, ISSN: 0926-2601 (Print) 1572-929X (Online) Available also on http://arxiv.org/abs/1205.1679. Mathematical Reviews 3001555 . Zentralblatt fur Mathematik 1266.46044 .2. *-Regularity of operator space projective tensor product of C*-algebras, joint work with A. Kumar, J. Applied Func. Anal. 9 (2014), 70–80 (USA). ISSN 1559-1948. Also Available on http://arxiv.org/abs/1112.0444. Mathematical Reviews 3183838 Zentralblatt fur Mathematik 1367.460463. Schur tensor product of operator spaces, joint work with A. Kumar and T.Itoh, Forum Math. 27 (2015), 3635 –3655 (Germany) DOI 10.1515/ forum-2013-0142 Available on http://arxiv.org/abs/1308.4538. ISSN 1435-5337 Mathematical Reviews 3420353, . Zentralblatt fur Mathematik 06505814.4. Projective tensor product of C * -algebras, joint work with A. Kumar, Advances in Pure Mathematics 4 (2014), 176–188, ISSN 2160-0368. Also available on http://arxiv.org/abs/1305.0791.5. Arens regularity of projective tensor products, joint work with A. Kumar, Arch. Math 107(2016), 531–541, ISSN: 0003-889X (Print) 1420-8938 (Online) Available on arxiv:1305.0791v1 [math.OA]. Published online DOI: 10.1007/s00013-016-0942-y Mathematical Reviews 3562381 Zentralblatt fur Mathematik 06668330.6. Polynomials in operator space theory: matrix ordering and algebraic aspects, joint work with A. Kumar and P. Luthra, To appear in Positivity Springer ISSN: 1385-1292 (Print) 1572-9281 (Online) Available on https://link.springer.com |
| Conference/Seminar/Faculty Development Programme/Workshop |

1. Delivered an Invited talk on λ -theory of operator spaces in IWM, Shiv Nadar University during 21-23 June, 2018.
2. Participated in an International Workshop on Recent Advances in Operator Semi-groups, Department of Mathematics, University of Delhi, Delhi, December 18 -21, 2017.
3. Participated in 1-Day Workshop on Computational Optimization organized by Department of Mathematics, Sri Venkateswara College, University of Delhi held on 05 February, 2016.
4. Delievered lectures in an International Workshop on Operator Spaces held at department of Mathematics, University of Delhi during 10-12 December, 2015.
5. Delievered a contributed talk on "Grothendieck's tensor norms" in IWM organized by University of Delhi during April 2-4, 2015.
6. Delievered a talk on "Schur tensor product of operator spaces " in ISI, delhi on November 12, 2014.
7. Presented a paper entitled "Projective tensor product of C^* -algebras" in the Research scholar seminar held during September 20-21, 2013 at the Department of Mathematics, University of Delhi.
8. Participated in the International Conference "The Legacy of Srinivasa Ramanujan" during December 17-22 Dec, 2012.
9. Presented a paper entitled " $*$ -Regularity of operator space projective tensor product of C^* -algebras" in the National Research scholar seminar held during March 24-25, 2012 at the Department of Mathematics, University of Delhi.
10. Attended Advanced Training in Mathematics Schools in Real Analysis held during March 22- April 3, 2010 at the Department of Mathematics, University of Delhi.
11. Delivered a talk entitled "Commutative C^* -algebras" in the Research scholar seminar held during March 18-19, 2010 at the Department of Mathematics, University of Delhi.
12. Attended summer school on Mathematics Learning through instructional Workshop, organised by Kumaon University, Nainital, Utranchal, India during 07-16 June, 2006.

| Research Guidance (<i>Supervision of Doctoral Thesis/Dissertations</i>) |
|---|
| Ph.D. Student: Arpit Kansal(2017-) |
| Awards and Distinctions |
| <ol style="list-style-type: none">1. Received a M.C. Puri Gold Medal from IITD for securing the Highest CGPA in M.Sc. Mathematics.2. Received a Santokh Gill Award from IITD for securing the Highest CGPA in M.Sc. Mathematics.3. Qualified Council for Scientific and Industrial Research (CSIR) National Eligibility Test (NET)-Junior Research Fellowship(JRF) of December 2008.4. Qualified Graduate Aptitude Test in Engineering (GATE) 2009 with a score of 94.79 percentile.5. Secured First Position in South Campus (Delhi University) in B.Sc. Hons. Mathematics.6. Secured Second Position in Delhi University, securing 93.33 %, in second year of B.Sc. Hons. Mathematics. |
| Memberships |
| <ol style="list-style-type: none">1. Member of Indian Mathematical Society.2. Reviewer for Mathematical Reviews, American Mathematical Society, New York,USA. |
| Other Academic Activities |
| <ol style="list-style-type: none">1.Attended an Orientation Programme conducted by CPDHE, University of Delhi from 25.05.2015 to 20.06.2015 sponsored by UGC-ASC.’2.Attended a Refresher Course at CPDHE, University of Delhi, Delhi from 26.11.2015 to 16.12.2015 sponsored by UGC-ASC. |
| Cultural/Extracurricular Activities |
| |

Signature of Faculty Member