




Faculty Details Proforma for DU Web-site

Title	Dr.	First Name	Hemant	Last Name	Singh	Photograph
Designation	Assistant Professor					
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Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Delhi				2010	
M.Sc.	I.I.T. Delhi.				2000	
B.Sc.	VBS Purvanchal University, UP				1997	
Career Profile						
<p>1. Assistant Professor, Department of Mathematics, University of Delhi, Delhi (22nd January 2014 (AN) to till date)</p> <p>2. Assistant Professor, Department of Mathematics, Keshav Mahavidalaya, University of Delhi, Delhi (22nd September, 2010 to 22nd January 2014 (FN))</p> <p>3. Assistant Professor/Lecturer (on ad-hoc basis), Department of Mathematics, Keshav Mahavidalaya, University of Delhi, Delhi (28th July, 2007 to 21st August, 2010 and 29th August, 2010 to 20th September, 2010)</p> <p>4. Lecturer (on ad-hoc basis), Department of Mathematics, Kirori Mal College, University of Delhi, Delhi (1st November, 2003 to 30th September, 2004 and 29th July, 2005 to 27th July, 2007)</p> <p>5. Lecturer (on ad-hoc basis), Department of Mathematics, Satyawati College, University of Delhi, Delhi (3rd December, 2002 to 30th April, 2003)</p>						

Administrative Assignments

- Warden, D. S. Kothari Hostel, University of Delhi, Delhi w.e.f. 1st May, 2015.
- The Nodal Officer of the D. S. Kothari Hostel, University of Delhi for assessment and accreditation by NAAC.
- Worked as member of the following Committees at Keshav Mahavidyalaya: (1) Central Admission Committee, (2) Magazine Committee, (3) Library Committee, (4) Prospectus Committee
- Worked as Dupty Superintendent of Annual/Semester Examination at Keshav Mahavidyalaya, University of Delhi for the period between from 8th June- 16th June 2011.

Areas of Interest / Specialization

Algebraic Topology

Subjects Taught

1. Postgraduate level: Algebraic Topology, Topology, Module Theory, Field Theory, Advanced Group Theory, Differential Geometry

2. Undergraduate level: Linear Algebra, Abstract Algebra, Calculus, Real Analysis, Mechanics, Probability Theory

Research Guidance

Supervision of Doctorol Thesis, under progress

(1) Singh, Konthoujam Indrajit, "Some Problems in Cohomological Aspects of Transformation Groups"

Supervision of M. Phil. Thesis, under progress

(1) Kumari, Anju

(2) Garg, Sourabh

Publications Profile

1. Jaspreet Kaur, Hemant Kumar Singh and Tej Bahadur Singh, Circle group action on the product of two projective spaces, *Topology Proceedings*, E-published on June 17, 2015.
2. Jaspreet Kaur and Hemant Kumar Singh, On the existence of free action of S^3 on certain finitistic mod p cohomology spaces, *J. Indian Math. Soc.* 82(3-4), 97-106, 2015.
3. Hemant Kumar Singh and Tej Bahadur Singh, The Cohomology of Orbit Spaces of Certain Free Circle Group actions, *Proceedings of the Indian Academy of Sciences-Mathematical Sciences*, 122(1), 79-86, February 2012.
4. Pedro L. Q. Pergher, Hemant Kumar Singh and Tej Bahadur Singh, On Z_2 and S^1 Free Actions on Spaces of Cohomology type (a, b) , *Houston Journal of Mathematics*, 36(1), 137-146, 2010.
5. Hemant Kumar Singh and Tej Bahadur Singh, Fixed Point Free Involutions on Cohomology Projective Spaces, *Indian Journal of Pure of Applied Mathematics*, 39(3), 285-291, June 2008.
6. Hemant Kumar Singh and Tej Bahadur Singh, On the Cohomology of Orbit Spaces of Free Z_p -Actions on Lens Spaces, *Proceedings of the Indian Academy of Sciences-Mathematical Sciences*, 117(3), 287-292, August 2007.

Conference Organization/ Presentations (in the last three years)

Paper Presentation :

1. Delivered a talk entitled "**Action of Sphere Groups on Certain Spaces**" in the National Workshop on Analysis, Differential Equations and Applications (NWADA-2016) organised by Department of Mathematics and Statistics, Mohanlal Sukhadia University during 25-27 February, 2016.
2. Delivered a talk entitled "**On S^0 , S^1 and S^3 actions on Spheres, Projective spaces, Lens spaces and Spaces of type (a,b)** " in the 30th Annual Conference of Ramanujan Mathematical Society at Indian Institute of Science Education and Research, Mohali during 15-17 May, 2015.
3. Delivered a talk entitled "**On the Orbit Spaces of Certain Transformation Groups**" in the Topology Discussion Meeting- 2013, at The Institute of Mathematical Sciences, Chennai during 2-4 May, 2013

Research Projects (Major Grants/Research Collaboration)
Grant of Rs 1,40,000 (One Lacs Forty Thousand Only) under R & D scheme 2015-16 of the University of Delhi.
Awards and Distinctions
<ol style="list-style-type: none"> 1. CSIR-UGC (NET + JRF) Qualified in Mathematical Sciences, 2000. 2. GATE-2000 Qualified in Mathematics (Percentile:96.02, All India Rank:30)
Association With Professional Bodies
<p>LIFE MEMBERS OF</p> <p>(1) THE INDIAN MATHEMATICAL SOCIETY (S-11-379),</p> <p>(2) THE INDIAN SCIENCE CONGRESS ASSOCIATION (L-18806), and</p> <p>(3) RAMANUJAN MATHEMATICAL SOCIETY (879)</p>
Other Activities
<ol style="list-style-type: none"> 1. Attended UGC-Sponsored "Refresher Course" in Mathematical Sciences (Maths/Stats/OR/Computer) held at <i>Centre for Professional development in Higher Education, University of Delhi, Delhi</i> during 24th November, 2014 to 13th December, 2014. 2. Attended the international workshop and conference entitled "Teichmuller Theory and Interfaces with Ergodic Theory and Group Actions" held at <i>School of Physical Sciences, Jawaharlal Nehru University, New Delhi</i> during October 28 to November 1, 2013. 3. Attended 99th four week UGC sponsored "Orientation Programme" at <i>Academic Staff College, Jamia Millia Islamia, New Delhi</i> during 18th January to 17th February, 2012. 4. Attended the international conference on "The Legacy of Srinivasa Ramanujan" held at <i>University of Delhi, Delhi</i> during 17-22 December, 2012.