



University Faculty Details Page on DU Web-site

(PLEASE FILL THIS IN AND SUBMIT A HARD COPY AND SOFT COPY ON CD
ALONGWITH YOUR PERIODIC INCREMENT **CERTIFICATE(PIC)**)

Title	Professor	First Name	Poonam	Last Name	Singh	Photograph
Designation	Professor					
Department	Statistics					
Address (Campus)	Department of Statistics, University of Delhi, Delhi-110007					
(Residence)						
Phone No (Campus)	011-27666671					
(Residence)optional						
Mobile						
Fax						
Email	pbs_93@yahoo.co.in, psingh@stats.du.ac.in					
Web-Page	-					
Education						
Subject	Institution	Year	Details			
Ph.D.	University of Delhi	2004	Thesis topic: Some contributions to Mixture Experiments.			
M.Phil	University of Delhi	1992	Topic: Mixture Experiments with Constraints: A Review			
M.Stat.	Indian Statistical Institute	1989	Spl.: SQC and OR			
Career Profile						
Organisation / Institution	Designation	Duration	Role			
PGDAV College University of Delhi	Lecturer, Sr. Lecturer, Reader	10 years 14 days	Teaching and Research			
Department of Statistics, University of Delhi	Reader, Associate Professor	23.11.2004 to 09.11.2009	Teaching and Research			
	Professor	Since 10.11.2009				
Department of Statistics, University of Delhi	Guest Under Co-operative Teaching Scheme	1997-1998, 1999-2000 to 22.11.2004	Teaching and Research			
Research Interests / Specialization						
Design of Experiments, Optimization, Generalized Linear Models.						

Teaching Experience (Subjects/Courses Taught)			
M.Phil./ Ph.D. Statistics, M.A./M.Sc. Statistics, B.Sc. (H.) Statistics, B.Sc. Mathematical Sciences			
Publications (LAST FIVE YEARS)			
<u>In Indexed/ Peer Reviewed Journals</u>			
<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Authors</u>
2020	Associations between Body Mass Index and Breast Cancer Markers	<i>Journal of Oncology Research</i>	Ishita Saha, S.K. Medda, and R. N. Das
2020	Role of Blood Pressure on Heart Patients.	<i>EC Cardiology</i>	R. N. Das and S.K. Medda
2019	Optimal Designs for Generalized Pareto Model	<i>International Journal of Mathematical, Engineering and Management Sciences</i>	Ashok Kumar
2019	Optimal Designs for Beta Regression Model with Random Intercept	<i>IJASS</i>	Ashok Kumar
2019	Construction of Mixture Designs Based on Taguchi's Fixed Element Orthogonal Arrays	<i>International Journal of Statistics and Reliability Engineering</i>	Vandana Sarin and Neha Midha
2018	Mixture Designs Based on Hadamard Matrices	<i>Statistics and Applications</i>	Vandana Sarin and Rashmi Goel
2018	Orthogonally Blocked Mixture Designs for Darroch and Waller Model	<i>IJASS</i>	M.L. Aggarwal, Vandana Sarin and Rashmi Goel
2017	Projected mixture designs based on weighing matrices	<i>Int. J. Experimental Design and Process Optimisation</i>	M.L. Aggarwal, Vandana Sarin and Rashmi Goel

2016	Nested cross-over designs	<i>Model Assisted Statistics and Applications</i>	M.K. Jha and Garima Priyadarshini
2016	Partially Balanced Cross-Over Designs for Consumer Trials	<i>Sri Lankan Journal of Applied Statistics</i>	M.K. Jha and Garima Priyadarshini
2016	Construction of Linear Trend Free Fractional Factorial Designs using Linear Codes	<i>IJASS</i>	Puja Thapliyal and Veena Budhraj
2016	Cross-over Designs for a model with self and mixed carryover effects	<i>ProbStat Forum</i>	M.K. Jha and Garima Priyadarshini
2016	A Technique to Construct Linear Trend Free Fractional Factorial Design Using Some Linear Codes	<i>IJSM</i>	Puja Thapliyal and Veena Budhraj
2015	Cross-Over Designs for Factorial Experiments	<i>IJASS</i>	M.K. Jha and Garima Priyadarshini
2015	Constructions of Partially Balanced Crossover Designs Based on Two and Higher Order Association Schemes	<i>JSTP</i>	M.K. Jha and Garima Priyadarshini

Conference Proceedings

Singh, P., Sarin, V., Goel, R. (2018): "Mixture Designs Based on Plackett and Burman Designs", *Conference Proceedings, Trends and Challenges in Mathematics*, 978-93-85835-55-1.

ARTICLES IN THE EDITED BOOKS

Aggarwal M.L. and Poonam Singh (2008): Efficient Uniform Designs for Mixture Experiments in Three and Four Components. *Trends in Applied Statistics Research*, Nova Science Publications, Inc., New York, Chapter 2, pp. 11-26 (M. Ahsanullah Editor).

Conference Presentations

1. Invited talk on “*Efficient Mixture Designs Using Latin Squares Based Orthogonal Arrays*” in Diamond Jubilee National Conference on Recent Advances In Statistics: Theory and Applications organized by the Department of Statistics, Sardar Patel University, during Jan 31-Feb 1, 2020. (also chaired a session).
2. Platinum Jubilee Lecture on “Designs for Mixture Experiments through Projection” in the Section of Mathematical Sciences (including Statistics) at 106th Indian Science Congress at Lovely Professional University, Jalandhar. January 3-7, 2019.
3. Invited talk in International Conference on Statistics and Informatics in Agricultural Research organized by Indian Society of Agricultural Statistics held at IASRI, PUSA, New Delhi during 18-20, November 2012.
4. Chaired a Session in International Conference on Statistics and Informatics in Agricultural Research organized by Indian Society of Agricultural Statistics held at IASRI, PUSA, New Delhi during 18-20, November 2012.
5. Participated in “The legacy of Srinivasa Ramanujan-An International Conference“ held at University of Delhi, Delhi-110007 during 17-22, December 2012.
6. Invited Talk entitled “Uniform Designs for Mixture Experiments” in Pre-ICM International Convention on Mathematical Sciences held at Delhi during December 18-20, 2008.
7. Invited Talk on “*Efficient mixture designs through projection of Minimal point second order response surface designs*” in **95th Indian Science Congress** held at Vishakhapatnam during January 3-7, 2008.
8. Invited Talk on “*D-Optimal Designs in Two Orthogonal Blocks for Darroch and Waller’s Quadratic Model in Constrained Mixture Components*” in **93rd Indian Science Congress** held at Hyderabad during January 3-7, 2006.
9. Invited Talk on “*Optimal Designs In (q-1) Orthogonal Blocks for Darroch and Waller’s Quadratic Mixture Models in q Components*” in **International Conference on Design of Experiments: Theory and Applications** held at Memphis, USA during May 13-15, 2005.
10. Paper on “*Optimal Orthogonal Block Designs for Mixture Models with Inverse Terms*” in **International Conference “Joint Statistical Meet”** held in Delhi during December 30, 2000 to January 3, 2001.
11. Paper on “*Projection Designs for Mixture Experiments*” in **International Conference “Recent Trends and Future Directions”** held in Delhi during December 27 -30, 2001.
12. Paper on “*Optimal Orthogonal Block Designs for Becker’s Mixture Models*” in **International Conference “Teaching Research for 21st Century”** held in Delhi during January 8 – 10, 2000.

Workshops attended:

1. Research level workshop on experimental designs held at Indian Statistical Institute, Kolkata during 25.12.2002 to 29.12.2002.
2. Colloquium on advanced lecture circuit in design of experiments held at University of Delhi, Delhi during 03.06.2000 to 14.04.2001.
3. International World Mathematics Year 2000 Workshop, held at University of Delhi, Delhi on 29.12.2000.

Professional Societies Memberships

1. **Society of Statistics, Computer and Applications.**
2. **Indian Science Congress Association.**
3. **Calcutta Mathematical Society.**
4. **Indian Society for Probability and Statistics.**

Other Details**Administrative Assignments (selected few):**

Head of the Department, Department of Statistics, University of Delhi: 21st August 2016 to 24th September 2019.

Nodal Officer M.A./M.Sc. Statistics admissions- 2019, 2018, 2017.

Nodal Officer M.Phil./Ph.D. Statistics admissions- 2019, 2018, 2017.

Nodal Officer M.A./M.Sc. Statistics DUET- 2019, 2018, 2017.

Nodal Officer M.Phil./Ph.D. Statistics DUET- 2019, 2018, 2017.

Head of the Department, Department of Statistics, University of Delhi: 02.08.2012 to 20.08.2013.

Chairperson, University Unit Complaints Committee against Sexual Harassment, Faculty of Mathematical Sciences, University of Delhi: 2009-2010 to 2012-2013.

Chairperson, Faculty Development Programme on “Financial Statistics” organized by the Department of Statistics, University of Delhi, Delhi, during 20 -22, December 2017.

Chairperson, Faculty Development Programme on “Actuarial Statistics” organized by the Department of Statistics, University of Delhi, Delhi, organized during 27-28, December 2017.

Chairperson, workshop on “Statistical Computing using R” organized by Department of Statistics, University of Delhi during 14-15 September 2013.

Chairperson, Committee for syllabi preparation FYUP in Statistics for Department of Statistics in A.Y. 2012-2013.

Faculty Coordinator, Placement Cell, Department of Statistics, University of Delhi: since 2005-2006 till date.

Faculty Coordinator, Udaan- The Socio-Cultural Cell, Department of Statistics, University of Delhi since 2016 onwards.

Teacher In-charge, Department of Statistics, PGDAV College, Delhi: Academic year 2003-2004.

Research Guidance:

1. **Ph.D.:** Awarded: 6, submitted: 1, In Progress: 5

Awarded:

1. Basudev Kole, "Computer Aided Search for Efficient Supersaturated Designs"
2. Bushra Husain, "Optimal Orthogonally Blocked Mixture Designs Using F-Squares"
3. Mahesh Kumar Panda, "Some Contributions to Optimal Designs for Experiments with mixtures"
4. Puja Thapliyal nee Puja Kagdiyal, "Some Contributions to Trend Free Designs"
5. Garima Priyadarshini, "Some Contributions to the Construction of Cross-Over Designs"
6. Rashmi Goel, "Designs for Mixture Experiments through Projections"

2. **M.Phil.:** Awarded: 13

1. Mahesh Kumar Panda, "Models in Mixture Experiments: A Review"
2. Meenakshi Tomar, "Experiments with Mixtures Involving Process Variables: A Review"
3. M. CH. Priya, "Scheffe's Canonical Polynomials with Designs and Analysis of Mixture Experiments: A Review"
4. Sasmita Sahu, "Response Surface Approach to Robust Parameter Design a Review"
5. Maya K.V., "Response Surface Designs: A Review"
6. Ashok Kumar, "Optimal Designs for Logistic Regression Model: A Review"
7. Neha Midha, "Mixture Experiments: A Review"
8. Shehnaz Saronwal, "Minimum Aberration Fractional Factorial Designs: A Review"
9. Nilesh Kumar, "Orthogonal Array Based Latin Hypercube Designs: A Review"
10. Rashmi Sharma, "Complete Diallel Crossing Systems and Their Analyses: A Review"
11. Santosh Babu, "Hadamard Matrices and Their Applications: A Review"
12. Himanshu Shukla, "Uniform Designs for Mixture Experiments: A Review"
13. Richa Jaiswal, "Experimental Designs in Big data analysis: A review"

(Signature of Faculty Member)