




Shivaji College Faculty Details Proforma



Title	Dr.	First Name	Kumari	Last Name	Priyanka	Photograph
Dissignation		Assistant Professor				
Address		Department of Mathematics Shivaji College (University of Delhi) New Delhi-110027 India				
OfficePhone No.		011 25116644				
Residence		9968619556				
Mobile		9968619556				
Email		priyanka.ism@gmail.com				
Web-Page		Under construction				
Educational Qualifications		M.Sc., M. Phil., Ph.D.				
Degree		University/Institute			Year	
Ph.D.		IIT (ISM), Dhanbad			2009	
M.Phil./M.Tech.		IIT (ISM), Dhanbad			2006	
PG		IIT (ISM), Dhanbad			2005 (Gold Medalist)	
UG		VBU, Hazaribagh			2003	
Any Other Qualification		ISM (JRF)			2006	

Career Profile

- 10 years of teaching experience.

Name of Institution	Position held	From	To	Total Period
Department of Mathematics, Indian School of Mines	Teaching	15.05.2006	28.05.2008	2 Years 13 Days
Department of Computer Science, Shaheed Rajguru College of Applied Sciences for Women (University of Delhi)	Lecturer in Mathematics	16.07.2008	07.10.2008	2 Months 23 Days
Department of Mathematics, Shivaji College (University of Delhi)	Assistant Professor	08.10.2008	13.09.2011	2Years 11Months 7 Days
Cluster Innovation Centre, University of Delhi	Assistant Professor (on deputation)	14.09.2011	14.02.2012	5 Months 1 Day
Department of Mathematics, Shivaji College (University of Delhi)	Assistant Professor	15.02.2012	Continued	

Administrative Assignments

Bursar, Shivaji College since January, 2015

Areas of Interest/Specialisation

Sampling Theory, Statistical Inference, Sensitive Estimation theory, Randomised Response Theory

Subjects Taught

Calculus, Multivariate Calculus, Differential Equation, Probability Theory and Statistics, Mathematics for Life Sciences, Reliability Theory, Numerical Methods, Statistics, Computer Programming

Innovation Project/Research Projects (Major Grants/Research Collaboration)

- Completed one UGC sponsored Major Research Project entitled “Search of Good Rotation Patterns on Successive Occasions and its Applications” [No. 42-42(2013)/SR]
- Working on SERB sponsored Major Research Project entitled “Design and Analysis of Sensitive Characteristics on successive Occasions and its Applications” [No. EMR(2016)/000455]

Publications Profile (Research Papers/Books)

- Published 26 research papers in peer reviewed international journals of repute and 2 research papers in national journal/proceedings.

a) International Journals

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Priyanka, K. and Trisandhya, P,	A composite class of estimators using scrambled response mechanism for sensitive population mean successive sampling.	Communications in Statistics-Theory and Methods	DOI: 10.1080/03610926.2017.1422762.		2018
2.	Priyanka, K. , Trisandhya, P, and Mittal, R.	Analysis of Exponential Product type Estimators with Embedded Imputation Techniques on Successive Occasions.	International Journal of Mathematics and Statistics,	19(1)	19-40	2017
3.	Priyanka, K. , Trisandhya, P, and Mittal, R.	Dealing sensitive characters on successive occasions through a general class of estimators using scrambled response techniques.	Metron	DOI: 10.1007/s40300-017-0131-1		2017
4.	Priyanka, K. and Mittal, R.	Multivariate analysis of longitudinal surveys for population median.	Communications for Statistical Applications and Methods	24(3)	1-15	2017
5.	Priyanka, K. and Mittal, R.	New approaches using exponential type estimator with cost modelling for population mean on successive waves.	Statistics in Transition – new series	18(4)	569-587	2017
6.	Priyanka, K. and Mittal, R.	A fresh approach for Intercession of Non-Response in Multivariate Longitudinal Designs.	Communications in Statistics (Theory and Methods)	46(18), 9303-9323.	9303-9323	2017
7.	Priyanka, K. and Mittal, R.	Searching Effective Rotation Patterns for Population Median using Exponential Type Estimators in Two-Occasion Rotation Sampling.	Communications in Statistics (Theory and Methods)	DOI: 10.1080/03610926.2017.1494461.	-	2016

8.	Priyanka, K. and Mittal, R.	Longitudinal Analysis of Population Mean on Successive Occasions.	International Journal of Mathematics and Statistics	17(2)	47-63	2016
9.	Priyanka, K. , Mittal, R., and Min-Kim, J.	Multivariate Rotation Design for Population Mean in sampling on Successive Occasions.	Communications for Statistical Applications and Methods	22(5)	445-462	2015
10.	Priyanka, K. and Mittal, R.	Estimation of Population Median in Two-Occasion Rotation Sampling.	Journal of Statistics Applications & Probability Letters	2(3)	205-219	2015
11.	Priyanka, K. and Mittal, R.	A Class of Estimators for Population Median in Two Occasion Rotation Sampling.	Hacettepe Journal of Mathematics and Statistics	44(1)	189-202	2015
12.	Priyanka, K. and Mittal, R.	Effective rotation patterns for median estimation in successive Sampling.	Statistics in Transition-new series	15(2)	197-220	2014
13.	Singh, G. N. and Priyanka , Prasad, S., Singh, S. and Kim, J. M.	One parameter class of estimators for estimating the population variance in two occasions rotation patterns.	Communications for Statistical Applications and Methods	20(4)	247-257.	2013
14.	Singh, G. N., Singh, V. K., Priyanka , Prasad, S. and Karna, J	Rotation patterns under imputation of missing data over two-occasions.	Communications in Statistics (Theory and Methods)	41(10)	1857-1874	2012
15.	Singh, G. N., and Priyanka	Use of imputation methods in two-occasion successive sampling.	Journal of Indian Society of Agricultural Statistics	64(3)	417 – 432	2010
16.	Singh, G. N. and Priyanka , K.	Estimation of population mean at current occasion in presence of several varying auxiliary variates in two-occasion successive sampling.	Statistics in Transition-new series	11(1)	105-126	2010
17.	Singh, G. N., Priyanka, K. , Kim, J. N. and Singh, S.	Estimation of population mean using imputation techniques in sample surveys.	Journal of Korean Statistical Society	39(1)	67-74	2010
18.	Singh, G. N. and Priyanka , K.	On the use of several auxiliary variates to improve	Journal of Indian Society of	62(3)	253 – 265	2008

		the precision of estimates at current occasion.	Agricultural Statistics			
19.	Singh, G. N. and Priyanka, K.	On the use of guess value for the estimation of population median on current occasion in two occasion rotation patterns.	Statistics in Transition new series	9(2)	215 – 232	2008
20.	Singh, G. N. and Priyanka, K.	Use of super-population model in search of good rotation patterns on successive occasions.	Journal of Statistical Research	42(1)	127-141	2008
21.	Singh, G. N., Priyanka, K. and Kozak, M.	Use of imputation methods at current occasion in two-occasion rotation patterns.	Model Assisted Statistics and Applications	3(2)	99-112	2008
22.	Singh, G. N. and Priyanka, K.	Search of good rotation patterns to improve the precision of estimates at current occasion.	Communications in Statistics (Theory and Methods)	37(3)	337 – 348	2008
23.	Singh, G. N. and Priyanka, K.	Estimation of population mean at current occasion in successive sampling under super population model.	Model Assisted Statistics and Applications	2(4)	189-200	2007
24.	Singh, G. N. and Priyanka, K.	Effect of non-response on current occasion in search of good rotation patterns on successive Occasions.	Statistics in Transition new series	8(2)	273 - 292	2007
25.	Singh, G. N. and Priyanka, K.	On the use of auxiliary information in search of good rotation patterns on successive occasions.	Bulletin of Statistics and Economics	1(A07)	42 – 60	2007
26.	Singh, G. N. and Priyanka, K.	On the use of Chain-Type Ratio to difference Estimator in Successive Sampling.	International Journal of Applied Mathematics and Statistics	5(S06)	41 – 49	2006

b) National Journal/Proceedings

S. No	Authors	Title	Conference	Organizing Institute	Page No.	Year
1.	Priyanka, K. and Mittal, R.	Cogitation of Incompleteness in the midst of Imputation in Longitudinal Surveys for Population Mean.	Proceedings of the National Conference on Recent Statistical Computing Techniques and their Applications	Department of Statistics, Ramanujan College, University of Delhi	In Process	2016
2.	Singh, G. N. and Priyanka, K.	One-parameter class of estimators for median estimation in sample surveys.	Proceedings of the National Seminar on RAIT-2007	Department of Computer Science, Indan School of Mines, Dhanbad.	286 - 297	2007

Conference/Seminar/Faculty Development Programme/Workshop

- Participated in Orientation Programme, OR – 65, from Jan. 10 – Feb. 7, 2011, held at CPDHE, University of Delhi, Delhi-110007.
- Participated in Refresher Course in Mathematics, Operational Research and Computer Science, from Dec. 12, 2011 – Dec. 31, 2011, held at CPDHE, University of Delhi, Delhi-110007.
- Participated in Science Academies’ Lecture Workshop on Theory of Equations, held in Shivaji College during 16-17, October, 2014.
- Participated in Refresher Course in Mathematical Sciences, held from 30th August to 19th September, 2016 at CPDHE, University of Delhi, Delhi-110007.
- Participated in Faculty development Program in Biostatistics: Theoretical and Practical aspects, from 14th March-18th March, 2018 held in Deen Dayal Upadhyaya College(University of Delhi), Sector-3, Dwarka, New Delhi-110078.
- Convener of a seminar entitled “Mathematics: Historic and Current Perspectives” held on 10th November, 2017 at Shivaji College (University of Delhi), New Delhi-110027.
- I have attended the following Conferences/ Seminars:
 1. SAP seminar on recent advances in theoretical and applied seismology, March 3-4, 2005 held in ISM. Presented a paper entitled “**A linear transformation on auxiliary variable for estimating the population mean in sample surveys**”.
 2. National seminar on recent advances in theoretical and applied seismology, March 20-21, 2006 held in ISM. Presented a paper entitled “**On the use of chain type ratio to difference estimator in search of good rotation pattern**”.

3. National Seminar on recent advances on information technology (RAIT, 2007), February 26-27, held in ISM. Presented a paper entitled "**One-parameter class of estimators for median estimation in sample surveys**".
4. National seminar on recent advances in theoretical and applied seismology, March 21-22, 2007 held in ISM. Presented a paper entitled "**Effect of non-response on current occasion in search of good rotation patterns on successive occasions**".
5. 61st Annual Conference of the Indian Society of Agricultural Statistics, November 30 to December 02, 2007 being held at Birsa Agricultural University, Ranchi. Presented a paper entitled "**Use of auxiliary variate to improve the precision of estimates at current occasion in two occasion rotation patterns**".
6. National Meet on History of Mathematical Sciences, Jan. 7 – Jan. 9, 2010, held at Department of Mathematics, University of Delhi, Delhi-110007.
7. The Legacy of Srinivasa Ramanujan, 17-22, December, 2012, held at University of Delhi, Delhi-110007.
8. The National Conference on Recent Statistical Computing Techniques and their Applications, 11-12 March, 2016, held at Department of Statistics, Ramanujan College, (University of Delhi), Kakaji, New Delhi-110019.
9. International Conference on Applicable Analysis, held on 8.02.2017 to 11.02.2017 organised by Saheed Bhagat Singh College, New Delhi.
10. National Conference on Recent Development in Mathematics, held on 12-13, Jan, 2017 at Kalandi College, New Delhi.
11. International Conference on Mathematics and Applications, held on 26.04.2017 to 28.04.2017 organized by Ramjas College (University of Delhi), New Delhi.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

- Supervised Doctoral Thesis of Research Scholar, Richa Mittal who have been awarded Ph. D degree from University of Delhi in Mathematics, thesis entitled "SEARCH OF EFFICIENT ROTATION PATTERNS AND THEIR APPLICATIONS."
- Supervising the research work of a Research Scholar Ms Pidugu Trisandhya working in Shivaji College as project fellow.

Awards and Distinctions

- Gold Medalist in M. Sc. from ISM, Dhanbad
- First Class First with Distinction in M. Phil. from ISM, Dhanbad
- Certificate from Mathematical Society of S.S.L. N. Mahila Mahavidyaya Trust, Dhanbad for getting first position in Mathematics (Hons.) in B. Sc. (Hons.)
- B-Level certificate from D.A.M.T. National Mathematics Olympiad contest (1999)

Memberships

- Life member of Indian Society of Agricultural Statistics, New Delhi
- Life member of the Indian Science Congress Association (Membership No: L34941)
- Life member of the Indian Society of Industrial and Applied Mathematics (Membership No. : P-57)

Other Academic Activities

- Associate Editor of the “**Journal of Statistics and Mathematics**”; BioInfo Publications.
- **Reviewer of following peer reviewed international journals**
 1. Mathematical Reviews, American Mathematical Society, USA
 2. Communications in Statistics (Theory and Methods)
 3. Hacettepe Journal of Mathematics and Statistics
 4. Statistics in Transition–New Series
 5. Journal of Applied Statistics
 6. Journal of Modern Applied Statistical Methods
 7. Journal of Reliability & Statistical Studies
 8. Cogent Mathematics
 9. Statistics: A Journal of Theoretical and Applied Statistics
 10. Journal of Statistics Applications & Probability
 11. Journal of Statistical Theory and Practice
 12. Mathematical Population Studies: An International Journal of Mathematical Demography
- **Academic Interactions with**
 1. **Department of Mathematics,**
Texas A & M University –Kingsville, TX 78363, U. S. A.
 2. **Statistics, Division of Science and Mathematics,**
University of Minnesota-Morris, Morris, MN 56267, USA
 3. **Department of Biometry and Bioinformatics, ,**
Warsaw University of Life Sciences, Nowoursynowska, 15, 02-776, Warsaw, Poland
 4. **Department of Statistics,** Banaras Hindu University, Varanasi, India.
 5. **Department of Applied Mathematics,** IIT(ISM), Dhanbad, India.
- Delivered a lecture entitled “**MATLAB in Complex Analysis**” in Advanced Training School in Mathematics Lectures in Complex Analysis with Modern Perspectives held at Department of Mathematics, University of Delhi from 16th March – 4th April, 2009.
- My one research paper entitled “Estimation of population mean using imputation techniques in sample surveys. **Journal of Korean Statistical Society**, Vol. 39, No. 1, 67-74 is among “**TOP 25 HOTTEST ARTICLE**” in 2010.
- Subject Expert of UDAAN project, C. B. S. E., MHRD, Govt. of India.
- Resource person in DST sponsored INSPIRE Science Camp held at Shivaji College.
- A member of PTA body, ITL Public School, Sector-9, Dwarka, New Delhi-110075

- Published chapters in Laboratory Manual, INSPIRE Science Camp 2015, Shivaji College, December 19-23, 2015 funded by DST, Government of India.
- Reviewed two sample chapters of a book on Differential Calculus for **Pearson Educations** Pvt. Ltd., New Delhi.

Cultural/Extracurricular Activities

- A member of Internal Quality Assurance Cell (IQAC), Building Committee, Development Committee, Purchase Committee at Shivaji College.
- Convener of Project Purchase Committee, SERB sponsored MRP No. EMR(2016)/000455 ;UGC sponsored MRP No. [42-42(2013)/SR], internal physical audit committee for audit of accounts and administration, Shivaji College.
- I am a member of College Research Cell, Shivaji College.
- I am a member of Fee Concession Committee, Shivaji College.
- I am a member of Selection Committee (MACP) for the promotion of Non- Teaching staffs, Shivaji College.
- I am a member of PF committee, Shivaji College.
- I was NCC in-chagre (Girls Wing) of Shivaji College, member of students advisory committee and discipline committee.
- I was the convener of Evaluation & review committee at CIC, DU.
- I was a member of Academic Committee, Purchase Committee, Engineering Kitchen & Computer facilities committee at CIC, DU.
- I was Teacher in-charge, Department of Mathematics, Shivaji College for the academic Session 2014-2015.
- I was a member of board for organizing the entrance test and interview for admissions in B. Tech/B.S. in Innovation with Mathematics & IT at CIC, University of Delhi.

Kumari Priyanka

Signature of Faculty Member