




Faculty Details proforma for DU Web-site

(PLEASE FILL THIS IN AND Email it to websiteDU@du.ac.in and
cc: director@ducc.du.ac.in)

Title	Dr.	First Name	Ranjita	Last Name	Pandey	Photograph
Designation		Assistant Professor				
Address		Department of Statistics, University of Delhi.				
Phone No	Office	27666671 Ext. 308				
Residence	Mobile	9868539655				
Email	Web-Page	ranjitapandey111@gmail.com				
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Allahabad				2002	
M.A.(Statistics)	University of Allahabad				1997	
B.A. (Mathematics, Statistics, Economics)	University of Allahabad				1995	
PGDCA	MCRP University, Bhopal				1998	
French Certificate	Banasthali Vidyapith, Rajasthan				2003	
Career Profile						
<ul style="list-style-type: none"> <input type="checkbox"/> Lecturer (Permanent) at Banasthali Vidyapith from 10.07.2000 to 23.01.2005 <input type="checkbox"/> Assistant Professor (Senior Grade) at University of Delhi from 24.01.2005 to present. 						
Administrative Assignments						
<p>Member of DC, DRC, BRS, Faculty of Mathematical Sciences, M. Phil. Committee, Purchase Committee, Syllabus Revision Committee for M.Sc., Syllabus Revision Committee for B.Sc courses, Committee of internal assessment tests, NAAC Committee, Convenor and co-convenor of various subject committees under FYUP, Anti-eve teasing committee, Committee of courses for Honours and postgraduate studies, Workload committee, Committee for drawing up panel for appointment of Assistant Professors in the colleges and departments on ad-hoc basis, Admission committee, Board of Moderators for various undergraduate and post graduate courses, Internal Audit committee, Co-ordinator- M.phil. committee (Examination work), Convenor of committee to coordinate final practical examinations of various colleges and many others committees over the years.</p> <p>Convener of a two day workshop on “Statistical Computing using R” during 14-15 September 2013 , organized by the Department of Statistics, University of Delhi, Delhi.</p>						

Areas of Interest / Specialization				
<ul style="list-style-type: none"> ❑ Time Series Methods, Ecological Modelling, Lifetime Distributions, Demography, Imputation Methods, Theoretical and Applied Bayesian Inference. 				
Subjects Taught				
<ul style="list-style-type: none"> ❑ Statistical Methods, Applied Statistics, Statistical Inference at the UG level. ❑ Bayesian Inference, Stochastic Processes, Applied Stochastic Processes , Operational Research, Queueing theory, Theory of Reliability at the PG level. ❑ Applied Bayesian Statistics , Research Methodology, Stochastic Processes at the M.Phil. level. <p>Additionally have taught Statistics Paper in the following Departments of DU:</p> <ul style="list-style-type: none"> • M. Phil. - African Studies (2006-07) • M. Sc. - Zoology (2010-11) • M. Sc. - Botany (2010-11) and (2011-2012). Also framed the syllabus for the Biostatistics course in this Department (2011). 				
Time table of the subjects taught during the current semester				
S.No.	Subject	Days	Time	Classroom
1	Stochastic Processes	Tues,Wed Thurs Mon	10.35-11.30 11.30-12.25 12.25-1.20	Lecture room II
2	Operational Research	Thurs Tue Mon Fri	8.45-9.40 10.35-11.30 11.30-12.25 12.25-1.20	Lecture room I
3	Bayesian Inference	Wed Fri Tue,Fri	9.40-10.35 10.35-11.30, 11.30-12.25	Lecture room I
4	Research Methodology (M.Phil./ Ph.D.)	Monday, Thursday	10-11 10-11	Room no. 303 and lab. No. 315
5	Applied Bayesian Inference (M.Phil./ Ph.D.)	Monday, Wednesday	11-12 12-1	Room no. 308
6	Practicals based on SPSS	(Sem III): Mon Tue Wed	1.50-5.30 3.40-5.30 3.40-5.30	Lab no. 314

Fri (Sem IV): Tue	1.50-5.30 1.50-3.40	Lab no. 314
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Research Guidance

- Two Ph. D. (under Progress)
- One Ph. D. thesis submitted on 27.03.17
 1. Some contributions to fertility models and its determinants in context of India
By Ms. Charanjit Kaur
- One Ph. D. thesis submitted on 27.01.17
 2. Some Contributions to estimation procedures in sample surveys using Auxiliary Information based on Imputation
By Ms. Kalpana Yadav
- Two M.Phil. (awarded)
 1. A Review of Fertility Patterns : Theoretic and Modelling Approaches (submitted July 2014)
By Ms. Neena Yadav
 2. Inferential and Stochastic Aspects of Some Lifetime Models- A Review From Classical and Bayesian Perspective (submitted November 2014)
By Mr. Mohammed Tayyab
- Two M.Phil. (submitted)
 1. Some Applications based on Markovian Models and Game Theory : A Review. (submitted on 22. 07. 2017).
By Mr. Pulkit Srivastava, *Viva-Voce conducted*
 2. Fertility, Mortality and Population Density : Review of Some Estimation and Modelling Procedures. (submitted on 25. 07. 2017)
By Ms. Alisha Khan
- One M. Phil. under Progress (Tentative title: Applied Bayesian Practices : A Review)
By Mr. Himanshu Tolani

Publications Profile

Publications (last seven years):

1. Y. S. C. Khuman, R. Pandey, K. S. Rao (Aug. **2011**). Fuelwood Consumption Patterns in Fakot Watershed, Garhwal Himalaya, Uttarakhand, *Energy*, Vol. 36(8), pp. 4769-4776. cited by 21
2. Y. S. C. Khuman, R. Pandey, K. S. Rao (Oct. **2012**). Micro-watershed level population based fuel wood consumption dynamics : implications of seasonal versus annual models for sustainable energy resource planning, *Renewable and Sustainable Energy Reviews*, Vol. 16(8), pp. 6142-6148. Co-author: Y. S. C. Khuman, K. S. Rao. **I.F.=6.018**
3. R. Pandey (April **2014**). Shrinkage Estimation for a Family of Lifetime Distributions under Type II Censoring , *American Journal of Computational and Applied Mathematics*, Vol. 4 (3), pp. 92-96.

4. R. Pandey, N. S. Thakur and K. Yadav (Sep. **2015**). Estimation of Population Mean using Exponential Ratio Type Imputation Method under Survey Non-response, *Journal of Indian Statistical Association*, Vol. 53(2), pp. 89-107.
5. R. Pandey, N. S. Thakur and K. Yadav (Mar. **2015**). Separate Regression Type Imputation Methods To Estimate Population Mean, *International Journal of Computer and Mathematical Sciences*, Vol. 4, special issue, pp. 198-207.
6. Y. S. C. Khuman, Nancy Raina, R. Pandey and K. S. Rao (**2015**). Fuelwood assessment at the micro-watershed level: a case study in Garhwal Himalaya, India, *Chinese Journal of Population Resources and Environment*. pp. 177-186.
7. R. Pandey (**2015**). Posterior Analysis of State Space Model With Spherical Symmetry, *Journal of Probability and Statistics*.
8. R. Pandey and C. Kaur (**2015**). Modelling fertility: an application of count regression models, *Chinese Journal of Population Resources and Environment*. pp. 349-357.
9. R. Pandey, K. Yadav and N. S. Thakur (**2015**). Combined Exponential Type Estimators of Population Mean in Stratified Random Sampling. *Proceedings of International conference on Recent Advances in Mathematics, Statistics and Computer Science*. pp. 303-312. eds. A. K. Sinha. R. Raiesh, P. Ranjan and R.P. Singh. World Scientific. Singapore.
10. R. Pandey and N. Yadav (**2015**). Fertility Decline: A Statistical Demographic Review of Parsi Community. *Bulletin Of Mathematical And Statistical Research*. Vol. 3(4). 104-122.
11. R. Pandey and A. Chaturvedi (**2016**). Bayesian Inference for State Space Model with Panel Data, *Statistics in Transition new series*. Vol. 17(2), pp. 211-220.
12. R. Pandey, K. Yadav and N. S. Thakur (**2016**). Adapted Factor-Type Imputation Strategies, *Journal of Scientific Research*, Vol. 8(3). pp. 321-339.
13. R. Pandey and K. Yadav (Nov. **2016**). An Alternative Class Of Exponential Ratio-Product Type Mean Imputation Using Auxiliary Information, *Journal of Applied Probability and Statistics*. Vol. 11(2). pp. 125-141.
14. A. Chaturvedi and R. Pandey (**2016**). Estimation and Testing Procedures for the Reliability Function of a Family of Inverse Distributions, *Proceedings of National Conference on Recent Advances in Statistical and Mathematical Sciences and their Applications*, Narosa Publishing House. New Delhi. ed. Neeraj Tiwari. pp. 74-89.
15. R. Pandey and K. Yadav (**2016**). Mean Estimation under Imputation based on Two-Phase Sampling Design using an Auxiliary Variable, *Pakistan Journal of Statistics and Operations Research*. Vol. 12 (4), pp. 639-658.
16. R. Pandey and N. Kumari (**2016**). A New Lifetime Distribution for Modeling Monotonic Decreasing Survival Patterns, *Journal of Reliability and Statistical Studies*, Vol. 9(2), pp. 53-70.
17. R. Pandey and C. Kaur (**2017**). Spatial Analysis of Factors Influencing Birth Patterns in the States of India: 1985-2011. *Journal of Scientific Research* . Vol. 9 (1), pp. 43-56.
18. R. Pandey and K. Yadav (**2017**). Population Variance Estimation using Factor Type Imputation Method. *Statistics in Transition new series*, Vol 18(3).

Communicated Papers :

- *Six* communicated papers

Publications in the Last one year

1. R. Pandey, K. Yadav and N. S. Thakur (**2016**). Adapted Factor-Type Imputation Strategies, *Journal of Scientific Research*, Vol. 8(3). pp. 321-339.
2. R. Pandey and K. Yadav (Nov. **2016**). An Alternative Class Of Exponential Ratio-Product

<p>3.</p> <p>4.</p> <p>5.</p> <p>6.</p> <p>7.</p> <p>□</p>	<p>Type Mean Imputation Using Auxiliary Information, <i>Journal of Applied Probability and Statistics</i>. Vol. 11(2). pp. 125-141.</p> <p>A. Chaturvedi and R. Pandey (2016). Estimation and Testing Procedures for the Reliability Function of a Family of Inverse Distributions, <i>Proceedings of National Conference on Recent Advances in Statistical and Mathematical Sciences and their Applications</i>, Narosa Publishing House. New Delhi. ed. Neeraj Tiwari. pp. 74-89.</p> <p>R. Pandey and K. Yadav (2016). Mean Estimation under Imputation based on Two-Phase Sampling Design using an Auxiliary Variable, <i>Pakistan Journal of Statistics and Operations Research</i>. Vol. 12 (4), pp. 639-658.</p> <p>R. Pandey and N. Kumari (2016). A New Lifetime Distribution for Modeling Monotonic Decreasing Survival Patterns, <i>Journal of Reliability and Statistical Studies</i>, Vol. 9(2), pp. 53-70.</p> <p>R. Pandey and C. Kaur (2017). Spatial Analysis of Factors Influencing Birth Patterns in the States of India: 1985-2011. <i>Journal of Scientific Research</i> . Vol. 9 (1), pp. 43-56.</p> <p>R. Pandey and K. Yadav (2017). Population Variance Estimation using Factor Type Imputation Method. <i>Statistics in Transition new series</i>, Vol 18(3).</p> <p>□ Six communicated papers</p>
<p>Conference Organization/ Presentations (in the last three years)</p>	
<p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p> <p>□</p> <p>Title of the paper :</p>	<p>□ National Conference on Time Series, Analytics and Recent Advances in Statistical Modelling organized by Department of Statistics, Central University of Rajasthan. Aug. 24-25, 2015.</p> <p>An Alternate Estimation of Population Mean using Exponential Ratio Type Imputation Method under Survey Non-Response.</p> <p>□ International Conference on Statistics and Related Areas for Equity, Sustainability and Development in conjunction with XXXV Annual Convention of Indian Society for Probability and Statistics organized by Department of Statistics, Lucknow University. Nov. 28-30, 2015.</p> <p>Birth Dynamics in the States of India.</p> <p>□ International Conference on Statistics for Twenty First Century organized by Department of Statistics, University of Kerela, Dec. 17-19, 2015.</p> <p>Socio-Economic influence on Birth Counts : A Regression Approach.</p> <p>□ International Conference on Celebrating Statistical Innovation and Impact in a World of Big & Small data organized by Department of Statistics & Centre for Advanced Studies, Savitribai Phule Pune University. December 20-24, 2015.</p> <p>Inverse Size Biased p-Dimensional Rayleigh Distribution.</p> <p>□ 18th Annual National Conference of Society of Statistics, Computer and Applications on significance of Statistics as Interdisciplinary Sciences organized by Department of Statistics, University of Jammu. February 18-20, 2016.</p> <p>Fertility in India - A Spatially Continuous Regionalised Analysis.</p> <p>□ International Conference on Current Scenario and Prospects of Nanotechnology and Bio-Statistics organized by School of Sciences, U.P. Rajarshi Tandon Open University, Allahabad. 25-26 February, 2016.</p> <p>Bayesian Inference of Errors in Variable Linear Dynamic Model.</p> <p>□ National Conference on Recent Statistical Computing Techniques and their Applications organized by Department of Statistics and Department of Computer Science, Ramanujan College, University of Delhi. Mar. 11-12, 2016.</p> <p>Bayesian Analysis of Linear Dynamic Model with Non-Normal Disturbances.</p>

- ❑ **International Conference on Mathematical Modeling & Simulation** jointly organized by Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi and Indian Academy of Mathematical Modeling and Simulation, IIT Kanpur. August 29-31, 2016.

Title of the paper: Exploring Spatial Dimensions of Births in India : 1985-2011.

- ❑ **37th Annual Conference** of Indian Association for the study of Population organized by IASP at Institute of Economic Growth, University of Delhi. December 7-9, **2016.**

Title of the paper: Proposing a model for Births in India

Invited Paper:

- ❑ **Presented an invited paper on *Discrete Time Series - A Bayes Predictive Approach*** at TEQUIP II sponsored one week short term **Training Programme** on Nonlinear Analysis, computations using MATLAB, Mathematica, Maple, Lingo and CPLEX with applications in Engineering and Sciences organized by Department of Applied Mathematics and Humanities, Sardar Vallabhbhai National Institute of Technology, Surat during Sept. 30- Oct. 04, **2016.**

Research Projects (Major Grants/Research Collaboration)

Research Grants:

- Receptient of grant for the year 2007-2008 under scheme to strengthen R&D Doctoral research Programme by DU.
- Co-Receptient of DU-DST PURSE grant 2009-2011.
- Receptient of grant for the year 2011-2012 under scheme to strengthen R&D Doctoral research Programme by DU.
- Receptient of grant for the year 2012-2013 under scheme to strengthen R&D Doctoral research Programme by DU.
- Receptient of grant for the year 2013-2014 under scheme to strengthen R&D Doctoral research Programme by DU.
- Receptient of grant for the year 2015-2016 under scheme to strengthen R&D Doctoral research Programme by DU.

Awards and Distinctions

- ❑ **Research Fellowship** Recipient of Summer Research Teacher-Fellowship during the period **May-July 2004** sponsored by Indian Academy of Science, Bangalore

Title of the Project: Exploratory Data Analysis on Land Wind Speeds at selected weather stations in India.

Supervisor: Dr. A.P. Gore, Professor, Pune University

Association With Professional Bodies

Membership of Academic Bodies:

- ❑ Life member of Indian Bayesian Society **since 2002.**
- ❑ Annual membership of Indian Science Congress, **2002-2003.**
- ❑ Life Member of Indian Society for Probability and statistics **since 2011.**
- ❑ Member Human Ethics Committee- North Campus, DU **2011-2012**

Other Activities

- ❑ **Reviewer for Journals :**

Journal of Indian Statistical Association,

Scholarly Journal of Mathematics and Computer Science,

Journal of Advanced Research in Applied Mathematics and Statistics,

Research and Reviews: Journal of Statistics,

Pakistan Journal of Statistics and Operations Research,

Journal of Reliability and Statistical Studies,

The Open Statistics and Probability Journal,

Journal of Modern Applied Statistical Methods,

Phytomorphology.

- ❑ **Chaired a session** of contributory paper presentation at **National Conference on Recent Statistical Computing Techniques and their Applications** organized by Department of Statistics and Department of Computer Science, Ramanujan College, University of Delhi. Mar. 11-12, 2016
- ❑ **Invited Talks:**
 - ❑ **One Invited lecture** on '*Probabilities: rules for numbers*' at the **DST Inspire Internship Science Camp** for school children from Oct. 17-21, 2016 at Sir Padampat Singhania University, Udaipur, Rajasthan
 - ❑ **One Invited lecture** on '*Scientific Inferences And Paradoxes*' at the **DST Inspire Internship Science Camp** for school children from Dec. 20-24, 2015 at Sir Padampat Singhania University, Udaipur, Rajasthan
 - ❑ **One Invited lecture** on '*Bayesian Analysis of a Stochastic Coefficient Regression Model with Covariates subject to Measurement Error*' at the **National Conference on Time Series, Analytics and Recent Advances in Statistical Modelling** organized by Department of Statistics, Central University of Rajasthan. Aug. 24-25, 2015.
 - ❑ **One Invited lecture** on '*Practicing Probability and Statistics*' at the **DST Inspire Internship Science Camp** for school children from April 06-10, 2015 at Sir Padampat Singhania University, Udaipur, Rajasthan
 - ❑ **Five Invited talks** on '*Evolution and Principles of Modern Time Series*', '*Univariate Stationary Processes - an Overview*', '*Linear Regression Models versus Lag Models - Forecast Evaluation using EViews*', '*Nonstationarity - Unit roots and Test of Causality*', and '*Modelling the variance using Generalised Family of Conditional Heteroscedasticity in Time Series - concepts and applications using EViews*' at the **Workshop on Research Fundamentals and Data Analytical Tools** organised by **All India Management Association - Centre for Management Education** from 23-27 July 2013.
 - ❑ **Two Invited talks** on '*Data Analysis and Simulation*' and '*Modelling Discrete Events*' at the **Refresher Course for Library and Information Sciences, University of Delhi** on 02/07/12.
 - ❑ **Five Invited lectures** on '*Fundamentals of Matrix Algebra*', '*General Linear Model*', '*Exploratory and Confirmatory Factor Analysis*', '*Principal Component Analysis, Canonical Correlation and Hotelling T^2* ' and '*Multivariate Inference using SPSS*' at **International workshop on Geometric Morphometrics** organized by the **Centre for Environmental Management of Degraded Ecosystems, University of Delhi** under

AICOPTAX scheme of the Ministry of Environment & Forests, Government of India on 20/03/12 and 28/03/12.

- **Four Invited lectures** on '*Measures of Data Distribution with special reference to Library and Information science*', '*Practical Orientation using Excel spreadsheet*',' *Data Preparation and Statistical Analysis using SPSS Software*' and '*Practical Orientation using SPSS Software*' at the Department of Library and Information Sciences, **University of Delhi** on 30/01/12 and 06/02/12 under '**Lecture Series**'
- **Three invited talks** on *Parametric Testing* at the **Summer school on Statistical Applications** held from 4-25 July, **2005** at Allahabad Agricultral Institute, Deemed University , Allahabad.

- **Paper Setter for UPSC**
- **Contributor to Global edition of “ Statistics : The Art and Science of Learning from the Data, 4th edition, by Alan Agresti, Christine A, Franklin, Bernard Klineberg. ISBN : 9781292164779, PEARSON**

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.