



SHASHI BHUSHAN

Professor, Department of Statistics, University of Lucknow, Lucknow

CONTACT INFORMATION

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SHORT BIOGRAPHY

Dr. Shashi Bhushan did his Ph. D. from University of Lucknow after qualifying CSIR NET/JRF at first attempt in appearing category. He has taught at several prestigious Indian Universities like University of Lucknow, Lucknow, Mizoram University, Aizawl, Central University of (South) Bihar, Patna and Babasaheb Bhimrao Amedkar University, Lucknow, Dr. Shakuntala Misra University before joining University of Lucknow in 2022.

Dr. Bhushan is a Fellow of Royal Statistical Society, UK, Life Member, American Statistical Association, Additional EC and Life Member, Indian Society of Probability and Statistics, India, Life Member, Indian Bayesian Society, India etc.



Dr. Bhushan is winner of several awards prestigious organizations like Indian Institute of Information Technology, Allahabad, C-DAC Hyderabad, DOEACC Aizawl and Dr. Shakuntala Misra University Lucknow.

Dr. Bhushan has published more than 90 research papers in the refereed national/international journals, 16 chapters in the books and one book besides presenting papers in more than fifty seminars and conferences. He has also edited a research monograph published by an international publisher.

His current research interests are in the areas of Applied Statistics, Non-Response, Missing Data, Measurement Errors, Robust Sampling Strategies, Data Science etc. He has received several research grants in these areas. He has also supervised three research projects funded by UGC. His papers are well cited in many journals and books. He has successfully supervised seven Ph.D. and three M.Phil. scholars apart from many masters students for their dissertations.

He is also expert member of various prestigious government organizations like Council of Science and Technology, Govt of UP, Staff Selection Commission, Prayagraj, Ram Manohar Lohia Awadh University, Faizabad, VBS University, Jaunpur, University of Lucknow etc. He has been invited speaker and chaired sessions in several conferences like prestigious IEEE Conference, Chengdu, China etc. He has visited China, Hong Kong and Bangkok for his academic pursuits. He has organised several workshops and conferences funded by prestigious institutions like Indian Statistical Institute, Calcutta, Department of Science and Technology, GoI, CSIR, UGC etc.



PERSONAL PROFILE

Father's Name\Mother's Name: Shri Shyam Sunder \Smt. Ranjana Yadav

Date and Place of Birth: 19.11.1976 & LUCKNOW

Sex: Male

Marital status: Married

Nationality: Indian

Permanent Address: E - 3104, Near Mini Stadium, Rajajipuram,
Lucknow - 226017, INDIA

EDUCATIONAL HISTORY

M.A. (Statistics), University of Lucknow, 2002

NET/JRF (Mathematical Sciences), CSIR, 2002 (Qualified in 1st Attempt)

Ph.D. (Statistics), University of Lucknow, 2007

Title: Some improved sampling strategies in finite population

Advisor: Prof. Ram Karan Singh

EMPLOYMENT

2003 - 2005	JRF/SRF	UNIVERSITY OF LUCKNOW
2006 - 2011	Assistant Professor	MIZORAM UNIVERSITY
2011	Assistant Professor	CENTRAL UNI OF (SOUTH) BIHAR
2011 - 2015	Assistant Professor	BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY
2015 - 2022*	Associate Professor	DR. SHAKUNTALA MISRA NATIONAL REHABILITATION UNIVERSITY



2022 - Till Date Professor UNIVERSITY OF LUCKNOW

*Professorship due since 2018

AWARDS

1. Certificate of Merit by Indian Institute of Information Technology, Allahabad, 2008
2. Distinguished Teacher Award by Dr. Shakuntala Misra National Rehabilitation University, Lucknow, 2019

ACADEMIC ASSOCIATIONS

Fellow, Royal Statistical Society, UK

Life Member, American Statistical Association, USA

Associate Executive Council and Life Member, Indian Society of Probability & Statistics, INDIA

Life Member, Indian Bayesian Society, INDIA

Editorial Board Member, Journal of Applied Statistics and Machine Learning, INDIA

RESEARCH EXPERIENCE

Ph.D. Awarded: 7

Dr. Nazia Naqvi, Babasaheb Bhimrao Ambedkar University, 2015

Dr. Arun Kumar, Babasaheb Bhimrao Ambedkar University, 2016

Dr. Abhay P. Pandey, Babasaheb Bhimrao Ambedkar University, 2017

Dr. Chandni Kumari, Babasaheb Bhimrao Ambedkar University, 2018

Dr. Shailja Pandey, Dr. Shakuntala Misra University, 2021



Dr. Anoop Kumar, Dr. Shakuntala Misra University, 2022

Dr. Saurabh Singh, Dr. Shakuntala Misra University, 2022

Ph.D. Submitted: 0

M.Phil. Supervised: 3

Ms. Pavitra Jaiswal, Babasaheb Bhimrao Ambedkar University, 2015

Ms. Shailja Pandey, Babasaheb Bhimrao Ambedkar University, 2015

Mr. Saurabh Singh, Babasaheb Bhimrao Ambedkar University, 2015

Sponsored Research Projects: 3

1. "One some improved successive sampling strategies" funded by University Grants Commission (NERO), INDIA (2010 - 2011) - Rs. 1.25 Lakhs
2. "On Estimation of Population Parameters in presence of Non Response Errors from Finite Population" funded by University Grants Commission (BSR), INDIA (2013 - 2015) - Rs. 6.00 Lakhs
3. "Improved estimation of parameters in presence of non-response" funded by University Grants Commission, INDIA (2016 - 2017) - Rs. 1.00 Lakh

ADMINISTRATIVE PROFILE

Member, Advisory/Expert Committee for Physical Sciences, Council of Science and Technology, Department of Science and Technology, Govt. of UP, 2020 - 2022.

VC Nominee, Selection Committee, V.B.S. Poorvanchal University, Jaunpur

Subject Expert, Selection Committee, R.M.L. Awadh Univeristy, Faizabad

Subject Expert, Selection Committee, University of Lucknow, Lucknow



Subject Expert, Mizoram Public Service Commission, Aizawl

Subject Expert, Staff Selection Commission, Prayagraj

Subject Expert, UP Public Service Commission, Prayagraj

Admission Coordinator, Dr. Shakuntala Misra National Rehabilitation University, 2020 – 21, 2021-22

Additional Chief Proctor, Dr. Shakuntala Misra National Rehabilitation University, 2019 – 2022

Head, Department of Mathematics and Statistics, Dr. Shakuntala Misra National Rehabilitation University, 2015 – 2022

Member, Research Degree Committee, Dr. Shakuntala Misra National Rehabilitation University, 2019 – 2022

Member, Academic Council, Dr. Shakuntala Misra National Rehabilitation University, 2015 - 2022

Member, Academic Council, University of Lucknow, 2022 onwards

Member, NAAC Committee, Dr. Shakuntala Misra National Rehabilitation University, 2019 – 2021

Convener & Chairman, Board of Studies, Dr. Shakuntala Misra National Rehabilitation University, 2019-2022

Member, Board of Studies, Dr. Shakuntala Misra National Rehabilitation University, 2016 – 2019

Member, Board of Studies, Babasaheb Bhimrao Ambedkar University, Lucknow, 2012 – 2015

Member, Board of Studies, Mizoram University, Aizawl, 2006 – 2009, 2009 – 2012



Convener & Chairman, Departmental Research Committee, Dr. Shakuntala Misra National Rehabilitation University, 2019-2022

Member, Departmental Research Committee, University of Lucknow, Lucknow, 2022 onwards

Member, Departmental Research Committee, Dr. Shakuntala Misra National Rehabilitation University, 2016 - 2019

Member, Departmental Research Committee, Babasaheb Bhimrao Ambedkar University, Lucknow, 2012 - 2015

Chairman & Convener, Departmental Committee, Dr. Shakuntala Misra National Rehabilitation University, 2016 - 2019

Member, Departmental Committee, Babasaheb Bhimrao Ambedkar University, Lucknow, 2011 - 2015

Member, Departmental Committee, Central University of (South) Bihar, 2011

Member, Departmental Committee, Mizoram University (PUC), Aizawl, 2006 - 2011

Centre Superintendent, UP Combined B.Ed. Exam, Dr. Shakuntala Misra National Rehabilitation University - 2020, 2021

Centre Superintendent, Dr. Shakuntala Misra National Rehabilitation University - University Examinations 2017 - 2021

OSD Evaluation, Dr. Shakuntala Misra National Rehabilitation University, University Examinations 2019



NOTEWORTHY PUBLICATIONS

15. Shashi Bhushan, Anoop Kumar & Showkat Ahmad Lone (2022): On some novel classes of estimators using ranked set sampling, Alexandria Engineering Journal (ISSN: 1110-0168), 61:7, 5465-5474, DOI: 10.1016/j.aej.2021.11.001 (Scopus/ SJR Q1, IF=3.732)
14. Shashi Bhushan, Anoop Kumar, Md Tanwir Akhtar & Showkat Ahmad Lone (2022): Logarithmic type predictive estimators under simple random sampling, AIMS Mathematics, 7:7, 11992-12010. DOI: 10.3934/math.2022668 (Scopus/SCI, IF=1.43)
13. Shashi Bhushan & Abhay Pratap Pandey (2022): New chain imputation methods for estimating population mean in the presence of missing data using two auxiliary variables, Communications in Mathematics and Statistics (ISSN: 2194-6701), DOI: 10.1007/s40304-021-00251-w (Scopus/SCI, IF=2.45)
12. Shashi Bhushan & Anoop Kumar (2022): Predictive estimation approach using difference and ratio type estimators in ranked set sampling, Journal of Computational and Applied Mathematics (ISSN 0377-0427), 410, 114214, DOI: 10.1016/j.cam.2022.114214 (Scopus/SCI, IF=2.621)
11. Shashi Bhushan, Anoop Kumar, Abhay Pratap Pandey & Saurabh Singh (2022): Estimation of population mean in presence of missing data under simple random sampling, Communications in Statistics - Simulation and Computation, ISSN: 0361-0918, DOI: 10.1080/03610918.2021.2006713 (Scopus/SCI, IF=0.89)
10. Shashi Bhushan and Anoop Kumar (2021): Novel log type class of estimators under ranked set sampling, Sankhya B (ISSN: 0976-8386), DOI: 10.1007/s13571-021-00265-y (Scopus/ SJR Q3, IF<1).
9. Shashi Bhushan & Abhay Pratap Pandey (2021): Optimal estimation of population variance in the presence of random non-response using simulation



- approach, Journal of Statistical Computation and Simulation (ISSN:0094-9655), 91:18, 3814-3827, DOI: 10.1080/00949655.2021.1948547 (Scopus/ SJR Q2, IF=1.48)
8. Shashi Bhushan, Anoop Kumar & Saurabh Singh (2021): Some efficient classes of estimators under stratified sampling, Communications in Statistics - Theory and Methods (ISSN: 0361-0926), DOI: 10.1080/03610926.2021.1939052 (Scopus/SCI/ SJR Q3, IF=0.89)
 7. Shashi Bhushan and A.P. Pandey (2020): Optimal imputation of the missing data using multi auxiliary information, Computational Statistics (ISSN: 0943-4062), 47, DOI: 10.1007/s00180-020-01016-9 (Scopus/SCI/SJR Q3, IF=1.3)
 6. Shashi Bhushan & Anoop Kumar (2022): On optimal classes of estimators under ranked set sampling, Communications in Statistics - Theory and Methods (ISSN: 0361-0926), 51:8, 2610-2639, DOI: 10.1080/03610926.2020.1777431 (Scopus/SCI/SJR Q3, IF=0.89)
 5. Shashi Bhushan & Shailja Pandey (2020): A cost-effective computational approach with non response on two occasions, Communications in Statistics - Theory and Methods (ISSN: 0361-0926), 49:20, 4951-4973, DOI: 10.1080/03610926.2019.1609518 (Scopus/SCI, IF=0.89)
 4. Shashi Bhushan, A. P. Pandey & A. Pandey (2020) On optimality of imputation methods for estimation of population mean using higher order moment of an auxiliary variable (ISSN: 0361-0918), Communications in Statistics - Simulation and Computation, 49:6, 1560-1574, DOI: 10.1080/03610918.2018.1500595 (Scopus/SCI, IF=0.89)
 3. Shashi Bhushan and A.P. Pandey (2018): Optimality of ratio type estimation methods for population mean in presence of missing data, Communications in Statistics - Theory and Methods, (ISSN: 0361-0926) DOI 10.1080.03610926.2016.1167906, 47:11, 2576-2589 (Scopus/SCI, IF=0.89)



2. A. Pandey, Shashi Bhushan, L. Ralte and P.K. Misra (2019): Comparison of Additive Shared Frailty Models under Lindley Baseline distribution, Communications in Statistics - Simulation and Computation, ISSN: 0361-0918, 51:3, 1121-1136, DOI: 10.1080/03610918.2019.1664573 (Scopus/SCI, IF=0.89)
1. A. Pandey, Shashi Bhushan & L. Ralte (2019): Shared frailty models with baseline generalized Pareto distribution, Communications in Statistics - Theory and Methods (ISSN: 0361-0926), 48:17, 4425-4447, DOI: 10.1080/03610926.2018.1500597 (Scopus/SCI, IF=0.89)

RESEARCH PUBLICATIONS

Title of Paper with details (* Noteworthy Research Papers)

- 106 Bhushan, S., Kumar, A. and Gupta, R. (2022). Novel logarithmic estimator using two auxiliary attribute. International Journal of Agricultural and Statistical Sciences, 18:1, 367-372. (Scopus/ SJR Q4, IF<1)
- 105 Shashi Bhushan, Anoop Kumar & Sumit Kumar (2022): Efficient Class of Estimators of Population Mean under Double Sampling, Thailand Statistician (ISSN: 1685 - 9057), Accepted in press (Scopus/ SJR Q4, IF<1)
- 104 Bhushan, S. and Kumar, A. (2021). New efficient class of estimators of population mean using two-phase sampling. International Journal of Mathematics in Operation Research. DOI: 10.1504/IJMOR.2021.10044653 (Accepted, in press). (SJR, IF<1)
- 103 Bhushan, S., Kumar, A. and Kumar, S. (2021). Efficient classes of estimators for population variance using attribute. International Journal of Mathematics in Operation Research, 22(1), 74-92. DOI: 10.1504/IJMOR.2021.10040442. (SJR, IF<1)



- 102 Bhushan, S., Kumar, A. (2022). Enhanced estimation of population mean under two-phase sampling. International Journal of Mathematical Modelling and Numerical Optimization. (Accepted, in press). (SJR, IF<1)
- 101 Bhushan, S., Kumar, A. and Singh, S. (2022). On some efficient classes of estimators using auxiliary attribute. Statistics in Transition-new series. (Accepted, in press). (SJR, IF<1)
- 100 Bhushan, S., Kumar, A. and Kumar, S. (2022). Some modified class of estimators for population variance using auxiliary attribute. Revista Investigacion Operacional. (Accepted, in press). (SJR, IF<1)
- 99 Bhushan, S. and Kumar, A. (2022). Improved estimation of population mean in simple random sampling using attribute. Thailand Statistician. (Accepted, in press). (SJR, IF<1)
- 98 Bhushan, S., Kumar, A., Tyagi, D. and Singh, S. (2022). On some improved classes of estimators under stratified sampling using attribute. Journal of Reliability and Statistical Studies, 15:1, 187-210. (SJR, IF<1)
- 97 Bhushan, S., Kumar, A., Kumar, S. and Singh, S. (2022). Some modified classes of estimators for population variance using auxiliary attribute. Pakistan Journal of Statistics, 38:2, 235-252. (SJR, IF<1)
- 96 Bhushan, S. and Kumar, A. (2022). An efficient class of estimators based on ranked set sampling. Life Cycle Reliability and Safety Engineering, 11, 39-48. <https://doi.org/10.1007/s41872-021-00183-y>.
- 95* Shashi Bhushan, Anoop Kumar, Md Tanwir Akhtar & Showkat Ahmad Lone (2022): Logarithmic type predictive estimators under simple random sampling, AIMS Mathematics, 7(7): 11992-12010. DOI: 10.3934/math.2022668 (Scopus/SCI, IF=1.43)



- 94* Shashi Bhushan & Anoop Kumar (2022): Predictive estimation approach using difference and ratio type estimators in ranked set sampling, Journal of Computational and Applied Mathematics, ISSN: 0361-0918, Accepted Manuscript ID: ELSCAM-D-21-01617R1 (Scopus/SCI, IF=2.621)
- 93* Shashi Bhushan, Anoop Kumar, Abhay Pratap Pandey & Saurabh Singh (2021): Estimation of population mean in presence of missing data under simple random sampling, Communications in Statistics - Simulation and Computation, ISSN: 0361-0918, Accepted Manuscript ID: LSSP-2021-0276.R1 (Scopus/SCI, IF=0.89)
- 92* Shashi Bhushan, Anoop Kumar & Showkat Ahmad Lone (2021): On some novel classes of estimators using ranked set sampling, Alexandria Engineering Journal (ISSN: 1110-0168), DOI: 10.1016/j.aej.2021.11.001 (Scopus/ SJR Q1, IF=3.732)
- 91 Shashi Bhushan, Dushyant Tyagi & Nazia Naqvi (2021): Cost efficient estimation in presence of non-response using auxiliary variable, International Journal of Agricultural and Statistical Sciences (ISSN: 0973-1903), 17:2, DOI: <https://connectjournals.com/03899.2021.17>. (Scopus/ESCI, IF<1) UGC Care List Group A S.No. 178.
- 90 Shashi Bhushan, Arun Kumar & Shivam Shukla (2021): Cost efficient estimation in presence of measurement errors and non-response using auxiliary variable, Journal of Applied Statistics & Machine Learning, 1:1, 1-21.
- 89* Shashi Bhushan and Anoop Kumar (2021): Novel log type class of estimators under ranked set sampling, Sankhya B (ISSN: 0976-8386), DOI: 10.1007/s13571-021-00265-y (Scopus/ SJR Q3, IF<1)
- 88 Bhushan, S., Kumar, A., Kumar, S. and Singh, S. (2021). On Some efficient classes of estimators under double sampling. International Journal of Agricultural and Statistical Sciences, 17:2, 519-524. DocID: <https://connectjournals.com/03899.2021.17.519>. [Scopus]



- 87 Bhushan, S., Naqvi, N., & Tyagi, D. (2020). A generalized class of cost efficient estimators of population mean in presence of non-response using auxiliary information. *International journal of Essential Sciences*, 14, 49-77, ISSN: 0973-8436.
- 86 Shashi Bhushan, Anoop Kumar & Saurabh Singh (2021): An improved class of estimators of population mean under simple random sampling, *The Philippine Statistician* (ISSN: 2094 - 0343), 70:1, 33-47. (SJR Q4, IF<1)
- 85* Shashi Bhushan & Abhay Pratap Pandey (2021): Optimal estimation of population variance in the presence of random non-response using simulation approach, *Journal of Statistical Computation and Simulation* (ISSN:0094-9655), DOI: 10.1080/00949655.2021.1948547 (Scopus/ SJR Q2, IF<1)
- 84* Shashi Bhushan, Anoop Kumar & Saurabh Singh (2021): Some efficient classes of estimators under stratified sampling, *Communications in Statistics - Theory and Methods* (ISSN: 0361-0926), DOI: 10.1080/03610926.2021.1939052 (Scopus/SCI/ SJR Q3, IF<1)
- 83* Shashi Bhushan and A.P. Pandey (2021): Optimality of ratio type imputation methods for estimation of population mean using higher order moment of an auxiliary variable, *Journal of Statistical Theory and Practice* (ISSN: 1559-8608), DOI: 10.1007/s42519-021-00187-y (Scopus/ SJR Q3, IF<1)
- 82* Shashi Bhushan and A.P. Pandey (2020): Optimal imputation of the missing data using multi auxiliary information, *Computational Statistics* (ISSN: 0943-4062), 47, DOI: 10.1007/s00180-020-01016-9 (Scopus/SCI/SJR Q3, IF<1)
- 81* Shashi Bhushan & Anoop Kumar (2020): On optimal classes of estimators under ranked set sampling, *Communications in Statistics - Theory and Methods* (ISSN: 0361-0926), DOI: 10.1080/03610926.2020.1777431 (Scopus/SCI/SJR Q3, IF<1)



- 80* Arvind Pandey, Shashi Bhushan, Lalpawimawia Ralte (2020): A Mixture Shared Gamma Frailty Model Under Gompertz Baseline Distribution, *Journal of the Indian Society for Probability and Statistics* (ISSN: 2364-9569), 21, 187 - 200. DOI: 10.1007/s41096-020-00073-z (Scopus/SCI, IF<1) UGC S.No. 49017
- 79 Shashi Bhushan & Anoop Kumar (2020): Improved class of estimator of population mean under ranked set sampling, *International Journal of Research and Analytical Reviews* (ISSN: 2348-1269), 7:3, 794-800. DOI: 10.1729/Journal.24508 (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.13602
- 78 Shashi Bhushan & Shailja Pandey (2020): Estimation of population variance using regression type estimator under successive sampling, *International Journal of Statistics and Systems*, (ISSN 0973-2675), 15:1, 47-59. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.17591
- 77 Shashi Bhushan, R. Gupta, S. Singh, A. Kumar (2020): A new efficient log-type class of estimators using auxiliary variable, *International Journal of Statistics and Systems*, (ISSN 0973-2675), 15:1, 19-28. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.17591
- 76 Shashi Bhushan, R. Gupta, S. Singh, A. Kumar (2020): Some new improved classes of estimators using multiple auxiliary information, *Global Journal of Pure and Applied Mathematics* (ISSN 0973-9750), 16:3, 515-528. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.13670
- 75 Shashi Bhushan, R. Gupta, S. Singh, A. Kumar (2020): A modified class of log-type estimators for population mean using auxiliary information on variables, *International Journal of Applied Engineering Research* (ISSN 0973-4562), 15:6, 612-627. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.64529
- 74 Shashi Bhushan, R. Gupta, S. Singh, A. Kumar (2020): Some improved classes of estimators using auxiliary information, *International Journal for Research in*



- Applied Science & Engineering Technology (ISSN: 2321-9653), 8:6, 1088-1098.
DOI: <http://doi.org/10.22214/ijraset.2020.6176>. (Peer-reviewed, No Impact Factor)
- 73 Shashi Bhushan, C. Kumari and R. K. Thakur (2020): A generalized class of ratio type estimator for population variance under Midzuno-Sen type sampling scheme, International Journal of Engineering Research and Application (ISSN : 2248-9622), 10:4, 55-60. (Peer-reviewed, No Impact Factor)
- 72 Shashi Bhushan, R. Gupta (2020): A generalized class of product type estimators for product of population means using auxiliary variable and attribute, International Journal of Scientific Engineering and Applied Science (ISSN: 2395-3470), 6:6, 123-135. (Peer-reviewed, No Impact Factor)
- 71 Shashi Bhushan, R. Gupta, S. Singh, A. Kumar (2020): Some log-type classes of estimators using multiple auxiliary information, International Journal of Scientific Engineering and Research (ISSN: 2347-3878), 8:6, 12-17. (Peer-reviewed, No Impact Factor)
- 70* Shashi Bhushan and A.P. Pandey (2019): An efficient estimation procedure for the population mean under non-response, Statistica (ISSN: 1973-2201), LXXIX, n. 4., 363-378. DOI: 10.6092/issn.1973-2201/8054 (Scopus, IF<1) UGC S.No.7803
- 69 Shashi Bhushan & Raksoni Gupta (2020) An improved log-type family of estimators using attribute, Journal of Statistics and Management Systems (ISSN: 0972-0510), 23:3, 593-602, DOI: 10.1080/09720510.2019.1661604 (Scopus, IF<1) UGC S.No.4038
- 68* Shashi Bhushan & Shailja Pandey (2020) A cost-effective computational approach with non response on two occasions, Communications in Statistics - Theory and Methods (ISSN: 0361-0926), 49:20, 4951-4973, DOI: 10.1080/03610926.2019.1609518 (Scopus/SCI, IF<1)



- 67 Bhushan, S., Kumar, A., Tyagi, D. & Shukla, S. (2019). New efficient class of estimator in case of measurement errors using simple random sampling. *International journal of Essential Sciences*, 13, 75-83, ISSN: 0973- 8436.
- 66* Arvind Pandey, Shashi Bhushan, Lalpawimawia Ralte and P.K. Misra (2019): Comparison of Additive Shared Frailty Models under Lindley Baseline distribution, *Communications in Statistics - Simulation and Computation*, ISSN: 0361-0918, DOI: 10.1080/03610918.2019.1664573 (Scopus/SCI, IF<1)
- 65* Shashi Bhushan and A.P. Pandey (2019): On efficient estimation of population mean under non-response, *Communications for Statistical Applications and Methods*, ISSN 2287-7843, 26:1, 11-25, DOI: 10.29220/CSAM.2019.26.1.011 (Scopus, IF<1) UGC S.No. 64110
- 64* Shashi Bhushan and A.P. Pandey (2019): An improved estimation procedure of population mean using bivariate auxiliary information under non-response, *Communications for Statistical Applications and Methods*, ISSN 2287-7843, 26:4, 347-357, DOI: 10.29220/CSAM.2019.26.4.347 (Scopus, IF<1) UGC S.No.64110
- 63 Shashi Bhushan and Raksoni Gupta (2019): Some new log type class of double sampling estimators, *International Journal of Applied Agricultural Research*, ISSN 0973-2683, 14:1, 31-40. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.16365
- 62 Shashi Bhushan and Raksoni Gupta (2019): A class of log-type estimators for population mean using auxiliary information on an attribute and a variable using double sampling technique, *International Journal of Computational and Applied Mathematics*, ISSN 1819-4966, 14:1, 1-10. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.16561
- 61 Shashi Bhushan and Raksoni Gupta (2019): Searls Ratio Product Type Estimators, *International Journal of Statistics and Systems*, ISSN 0973-2675, 14:1, 29-37. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.17591



- 60 Shashi Bhushan and Raksoni Gupta (2019): Some log-type classes of estimators using auxiliary attribute, *Advances in Computational Sciences and Technology*, ISSN 0973-6107, 12:2, 99-108. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.1279
- 59 Shashi Bhushan, C. Kumari and R. K. Thakur (2019): Optimal two parameter logarithmic estimators for estimating the population variance, *Global Journal of Pure and Applied Mathematics* (ISSN 0973-1768), 15:5, 527-537. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.13670
- 58* Arvind Pandey, Shashi Bhushan & Ralte Lalpawimawha (2019) Shared frailty models with baseline generalized Pareto distribution, *Communications in Statistics - Theory and Methods* (ISSN: 0361-0926), 48:17, 4425-4447, DOI: 10.1080/03610926.2018.1500597 (Scopus/SCI, IF<1)
- 57* Shashi Bhushan, Abhay Pratap Pandey & Arvind Pandey (2020) On optimality of imputation methods for estimation of population mean using higher order moment of an auxiliary variable (ISSN: 0361-0918), *Communications in Statistics - Simulation and Computation*, 49:6, 1560-1574, DOI: 10.1080/03610918.2018.1500595 (Scopus/SCI, IF<1)
- 56* Shashi Bhushan and A.P. Pandey (2018): Optimality of ratio type estimation methods for population mean in presence of missing data, *Communications in Statistics - Theory and Methods*, (ISSN: 0361-0926) DOI 10.1080.03610926.2016.1167906, 47:11, 2576-2589 (Scopus/SCI, IF<1)
- 55 Arvind Pandey, Lalpawimawia Ralte, Shashi Bhushan (2018): Additive shared inverse Gaussian frailty models, *Pakistan Journal of Statistics* (ISSN: 1012 - 9367), 34:4, 311-330 (Scopus, IF<1)
- 54 Arvind Pandey, Lalpawimawia Ralte, Shashi Bhushan and P. K. Misra (2018): Correlated gamma frailty model based on logistic exponential baseline distribution, *International Journal of Scientific Research in Mathematical and*



Statistical Sciences (ISSN: 2348-4519), 5:6, 170-176. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.63061

- 53 Bhushan, S. and Kumari, C. (2018): An unbiased family of sampling strategies for estimation of population variance, International Journal of Statistics and Systems, (ISSN 0973-2675), 13:1, 41-52. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.17591
- 52 Bhushan, S. and Kumari, C. (2018): A new log type estimators for estimating the population variance, International Journal of Computational and Applied Mathematics (ISSN 1819-4966), 13:1, 43-54. (Peer-reviewed/Earlier UGC, No Impact Factor) UGC S.No.16561
- 51 Bhushan, S. and Kumari, C. (2018): Some classes of log type estimators using auxiliary attribute for population variance, International Journal of Scientific & Engineering Research (ISSN 2229-5518), 9:7, 1823-1832. (Peer-reviewed, No Impact Factor)
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WORKSHOP/ SEMINAR / CONFERENCES ORGANIZED

- 1 Workshop on Statistical Quality Control and Operations Research, Funded by Indian Statistical Institute, Kolkata Mizoram University, PUC Campus, Aizawl, 2008.
- 2 Workshop on Statistical Methods with Applications, Funded by Indian Statistical Institute, Kolkata at Mizoram University, PUC Campus, Aizawl, 2011.
- 3 National Conference in Statistics and its applications, Funded by DST (SERB), Mizoram University, PUC Campus, Aizawl, 2012.
- 4 Workshop on Statistical Modelling using Softwares, Babasaheb Bhimrao Ambedkar University, Lucknow, 2013.
- 5 Conference on Applied Statistics and its applications, Funded by CSIR, Babasaheb Bhimrao Ambedkar University, Lucknow, 2013.
- 6 Mahalanobis Invited Lecture Series, Dr. Shakuntala Misra National Rehabilitation University, Lucknow:
 - i. By Prof. Kuldeep Kumar, Bond University, Australia, 2015,
 - ii. Prof. Neeraj Tiwari, Kumaun University, Almora, 2018.



- 7 Workshop on Scientific Writing using LaTeX, Dr. Shakuntala Misra National Rehabilitation University, Lucknow, 2017.
- 8 Career Counselling Seminar, Dr. Shakuntala Misra National Rehabilitation University, Lucknow, 2017:
 - i. By Prof. A K Srivastava, University of Lucknow, Lucknow,
 - ii. By Shri S B Singh, DDG, Ministry of Labour & Employment, New Delhi.
- 9 Workshop on data analytics using R, Dr. Shakuntala Misra National Rehabilitation University, Lucknow, 2017.

INVITED TALKS AT SEMINARS / CONFERENCES / WORKSHOPS

1. Generalized class of estimators under non-response, Kumaun University 2014
2. Non-response in sample surveys, Central University of Rajasthan, 2015
3. Analysis of Qualitative Data, Inferential Statistics: Parametric and Non-parametric, Dr. Shakuntala Misra National Rehabilitation University, 2015
4. Sampling and Statistical Inference for Statistical and Mathematical Techniques for Researchers, Amity University, 2015
5. Missing data and related inferences, ISPS, 2015
6. Optimal imputation of missing data, ISPS, 2016
7. Probability and sampling distributions for Biostatistical Computing using R, SGPGI, Lucknow, 2017
8. Exploratory data analysis for Biostatistical Computing using R, SGPGI, Lucknow, 2017
9. INSPIRE - DST Science Camp, Mentorship Lecture, Ace Group of Institutions, Agra, 2018
10. Data Visualization using R, Amity University, Lucknow, 2018
11. Statistical aspects of Research Methodology using SPSS, Ishwar Sharan Degree College, University of Allahabad, 2019



12. Scientific Exploration: Indian and Western, Babasaheb Bhimrao Ambedkar University, Lucknow, 2019
13. Application of Statistical Techniques in real world, Ramanujam College, University of Delhi, 2021
14. Tools and Techniques in Statistical Analysis, Acharya Narendra Dev College, University of Delhi, 2021
15. Principal Component Analysis for Data Analysis using R, Babasaheb Bhimrao Ambedkar University, Lucknow, 2021
16. Cluster Analysis for Data Analysis using R, Babasaheb Bhimrao Ambedkar University, Lucknow, 2021
17. On predictive estimation approach in ranked set sampling, Ramanujam College, University of Delhi, 2022
18. Introduction to social science research, Babasaheb Bhimrao Ambedkar University, Lucknow, 2022
19. Concept mapping and formulation of research problem, Babasaheb Bhimrao Ambedkar University, Lucknow, 2022
20. ANOVA: One-way & Two-way data & analysis of data with Repeated measures, A.K.Dasgupta Centre of Planning and Development, Niti Aayog, Visva-Bharati University, Shantiniketan, Kolkata, 2022
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CONTRIBUTED TALKS AT SEMINARS / CONFERENCES

- 36 ISSAC - ISPS 2016, AMU, 17.12.2016 - 19.12.2016, Title of Paper: Imputation of missing data for estimation of population mean
- 35 SRAESD - ISPS 2015, University of Lucknow, 2015, 28-30.11.2015, Title of Paper: A Searls type predictive approach for estimation of population mean
- 34 SRAESD - ISPS 2015, University of Lucknow, 2015, 28-30.11.2015, Title of Paper: Optimal Imputation of Missing Data for Estimation of Population Mean



- 33 NCTAS 2015, Central University of Rajasthan, 24-25.08.2015, Title of Paper: On some generalized classes of estimators for population mean using auxiliary information under non-response
- 32 NCATAS 2015, Panjab University, Chandigarh, 12-13.02.2015, Title of Paper: On some generalized efficient classes of estimators in presence of non-response using auxiliary variables
- 31 ICSIGN (ISPS) 2014, S.V. University, Tirupati, 30-02.12.2014, Title of Paper: A generalized class of unbiased estimators for population mean using auxiliary information on an attribute and an auxiliary variable
- 30 ICSIGN (ISPS) 2014, S.V. University, Tirupati, 30-02.12.2014, Title of Paper: A generalized cost efficient class of estimators for estimation of population ratio in presence of non-response
- 29 NCRAMA 2014, BBAU, Lucknow, 30-31.10.2014, Title of Paper: On estimation in presence of non-response using auxiliary information
- 28 32nd Annual Conference of ISMS, Jammu University, Jammu 2014, 1-3.11.2014, Title of Paper: An efficient class of estimators for estimation of population mean in presence of non-response
- 27 NCRASMSTA 2014, Kumaun University, Nainital, 4-6.10.2014, Title of Paper: A generalized class of cost efficient estimators in presence of non-response
- 26 ICM-2013, Cochin, 9-10.08.2013, Title of Paper: (i) Shashi Bhushan , S.K. Yadav and S.K. Pandey: On class of double sampling exponential ratio type estimator using auxiliary information on an attribute and an auxiliary variable
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- 19 21st International Conference of FIM on Interdisciplinary Mathematics, Statistics and Computational Techniques 2012, Panjab University, Chandigarh, 15-17.12.2012, Title Of Paper: Shashi Bhushan, S.K. Singh and R. Karan Singh: Estimating the Finite Population Variance under Measurement Errors
- 18 National Conference on Statistics and its Applications, Aizawl 2012, 18-19.05.2012, Title Of Paper: (i) Shashi Bhushan: On Unbiasedness And Relative Efficiency Of Ratio And Product Type Estimator



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