



DEPARTMENT OF STATISTICS  
FACULTY OF MATHEMATICAL SCIENCES  
UNIVERSITY OF DELHI  
DELHI-110007



## Recent Publications of the Faculty Members Since 2012

The faculty members publish papers in national and international journals. The following is a partial list of the publication.

### Year: 2025

1. Giri, K., Chandra, G., RSC Jayraj, G Mishra and E Chanu. (2025) Non-destructive method for developing regression models to estimate timber volume of *Quercus serrata* and *Pinus kesiya* in Manipur, North-East India.  
<https://www.woodresearch.sk/cms/volume-estimation-models-for-quercus-serrata-and-pinus-kesiya-using-non-destructive-techniques-a-case-study-from-northeast-india/>
2. Kamal Pandey, Sunil Chandra, Girish Chandra and Salman Khan (2025). Small Area Estimation Technique in Forestry Sector with Special Emphasis on National Forestry Inventory: A Review  
[.https://www.researchgate.net/publication/397702842\\_Small\\_Area\\_Estimation\\_Technique\\_in\\_Forestry\\_Sector\\_with\\_Special\\_Emphasis\\_on\\_National\\_Forestry\\_Inventory\\_A\\_Review/references](https://www.researchgate.net/publication/397702842_Small_Area_Estimation_Technique_in_Forestry_Sector_with_Special_Emphasis_on_National_Forestry_Inventory_A_Review/references)
3. Saha, M., Pratibha Pareek, P., Pandey, A. and Devi, A. (2025). Applications of new quantile and symmetric based process capability index to manufacturing industry, *Quality and Reliability Engineering International*, doi.org/10.1002/qre.70106
4. Saha, M., Dey, S and Kumar, D. (2025). Applications of interval estimation for the evaluation of two process. .  
[https://www.researchgate.net/publication/395548410\\_APPLICATIONS\\_OF\\_INTERVAL\\_ESTIMATION\\_FOR\\_THE\\_EVALUATION\\_OF\\_TWO\\_PROCESS\\_CAPABILITIES](https://www.researchgate.net/publication/395548410_APPLICATIONS_OF_INTERVAL_ESTIMATION_FOR_THE_EVALUATION_OF_TWO_PROCESS_CAPABILITIES)  
[https://www.researchgate.net/publication/394926214\\_Control\\_Chart\\_for\\_Mean\\_based\\_on\\_Multiple\\_Dependent\\_State\\_Repetitive\\_Sampling\\_for\\_Exponential\\_Power\\_Distribution](https://www.researchgate.net/publication/394926214_Control_Chart_for_Mean_based_on_Multiple_Dependent_State_Repetitive_Sampling_for_Exponential_Power_Distribution)

5. Das, S., Saha, M. and Maiti, S. S. (2025). Control Chart for Mean based on Multiple Dependent State Repetitive Sampling for Exponential Power Distribution, Life Cycle Reliability and Safety Engineering, doi.org/10.1007/s41872-025-00359-w,
6. Saha, M., Yadav, A.S., Bhattacharya, A., Maiti, S. S. and Gupta, A. (2025). Bayesian estimation of unified generalized process capability index for logistic-exponential distribution under type-II censored scheme. *Engineering Applications of Artificial Intelligence*, doi.org/10.1016/j.engappai.2025.111868.
7. Saha, M., Gopal, G. and Yadav, A. S. (2025). Bayesian of the process capability index Cpc under progressive type II censored scheme, *International Journal of System Assurance Engineering and Management*, 10.1007/s13198-025-02913-2.
8. Saha, M., Pareek, P., Tripathi, H. and Devi, A. (2025). Time truncated attribute control chart using acceptance sampling plans: A comparative study, *International Journal of System Assurance Engineering and Management*, doi.org/10.1007/s13198-025-02893-3.
9. Kumar, D., Saha, M. and Dey, S. (2025). Classical estimation and confidence interval for Poisson Nadarajah-Haghighi distribution with its applications, *Strength of Materials*, DOI 10.1007/s11223-025-00779-0.
10. Tripathi, H., Yadav, A.S., Saha, M. and Sumit Kumar, S. (2025). Generalized inverse xgamma distribution: properties, estimation and its applications to survival data. *Thailand Statistician*, 23(3), 573-597.
11. Saha, M. Kumar, S., Pareek, P., Doodal, G. and Meena, B. (2025). Parametric confidence intervals of generalized process capability index for finite mixture distributions, *International Journal of System Assurance Engineering and Management*, doi.org/10.1007/s13198-025-02745-0.

12. Pareek, P., Saha, M., Riyar, S. and Pandey, A. (2025). Applications of time truncated acceptance sampling plans for logistic-exponential process distribution, *Life Cycle Reliability and Safety Engineering*, doi.org/10.1007/s41872-025-00304-x.
13. Saha, M., Dey, S., Maiti, S. S. and Yadav, A.S. (2025). A comparative study of six process capability indices and their applications to food and electronic industries, *Stochastic and Quality Control*, DOI: 10.1515/eqc-2024-0027.
14. Saha, M., Tripathi, H. and Maiti, S. S. (2025). Group acceptance sampling inspection plan for truncated life test based on some finite mixture distributions: A comparative study, *Life cycle Reliability and Safety Engineering*, doi.org/10.1007/s41872-025-00305-w.
15. Yadav, A.S., Singh, S K. and Saha, M. (2025). On the estimation of generalized lifetime performance index of exponentiated exponential distributed characteristics under progressive censoring. *Quality and Reliability Engineering International*, 0, 1-17.
16. Sen, S., Saha, M. and Tripathi, H. (2025). A group acceptance sampling inspection plan based on truncated life test for quasi xgamma distribution, *Stochastic and Quality Control*, doi.org/10.1515/eqc-2024-0035.
17. Dey, S., Mahendra Saha, M., Zhang, S. and Wang, M. (2025). Classical and Bayesian estimation of PCI Cpc using power generalized Weibull distribution, *Stochastic and Quality Control*, doi.org/10.1515/eqc-2024-0047.
18. Yadav, A. S., Saha, M. and Dey, S. (2025). Parametric estimation and confidence intervals of reliability characteristics for logistic-exponential distribution, *Africa Mathematica*, doi.org/10.1007/s13370-025-01250-8,
19. SatyaPrakashMishra, ManojKumar, SanjayKumarSingh, RanjanKumarSahoo (2025) E-Bayesian and hierarchical Bayesian inference of exponentiated lifetime distribution under adaptive progressively censored data with binomial removals. <https://link.springer.com/article/10.1007/s41870-025-02765-w>
20. Ormoz, Ehsan, Akhter, Zuber, Alam, Mahfooz, & Mir Mostafae, S.M.T.K. (2025) Lower k-record values from unit-Gompertz distribution and associated

inference. <https://arxiv.org/abs/2309.13279>.

21. Akhter,Zuber,Ormoz,EhsanandMirMostafae,S.M.T.K.(2025)Linearestimation and prediction for the generalized Bilal distribution with application to thermal conductivity data.  
[https://www.researchgate.net/publication/396425124\\_Linear\\_estimation\\_and\\_prediction\\_for\\_the\\_generalized\\_Bilal\\_distribution\\_with\\_application\\_to\\_thermal\\_conductivity\\_data](https://www.researchgate.net/publication/396425124_Linear_estimation_and_prediction_for_the_generalized_Bilal_distribution_with_application_to_thermal_conductivity_data)
22. Sanjeev K.Tomer, MS Panwar, Himanshu Rai (2025) A Latent Variable Approach to the Analysis of Progressively Hybrid Censored Masked Data .<https://link.springer.com/article/10.1007/s11009-025-10197-z>
23. Himanshu Rai, Sanjeev K. Tomer (2025) Variational Bayes for analysis of masked data  
[https://www.researchgate.net/publication/394490400\\_Variational\\_Bayes\\_for\\_analysis\\_of\\_masked\\_data](https://www.researchgate.net/publication/394490400_Variational_Bayes_for_analysis_of_masked_data)

### **Year :2024**

1. Pandey,R.,Chand,D.B.,&Tolani,H.(2024).Bayesianmultiplelinearregressionmodel for GDP in India. International Journal of System Assurance Engineering and Management, 1-18. <https://doi.org/10.1007/s13198-023-02233-3>.
2. Singh,P.andShukla,H.(2024).Uniformmixturedesignsusingdesignsin2-dimensional spherical region. Journal of Xidian University, **18**(2), 192-223.
3. Kumar, S., Pathak,A., and Kumar, M. (2024). Bayesian estimation: Number of species from Poisson mixed exponential-gamma distribution using objective priors, Journal of Statistics & Management Systems, pp:703-720, <https://doi.org/10.47974/JSMS-1245>.
4. Saha,M.,Devi,A.,Yadav,A.S.,&Maiti,S.S.(2024).Evaluationofanovelloss-based process capacity index and its applications. International Journal of System Assurance Engineering and Management, 1-14. [1007/s13198-023-02235-1](https://link.springer.com/article/10.1007/s13198-023-02235-1).  
<https://link.springer.com/article/10.1007/s13198-023-02235-1>
5. Saha,M.,Pareek,P.,Tripathi,H.,andDevi,A.(2024).Timetruncatedattributecontrol chart for the generalized Rayleigh distributed quality characteristics and beyond. International Journal of Quality and Reliability Management. 10.1108/IJQRM-02-20230049. <https://www.emerald.com/ijqrm/article-abstract/41/5/1400/1234637/Time-truncated-attribute-control-chart-for-the?redirectedFrom=fulltext>

6. Devendra Kumar, D, Goyal, A., Pareek, P. and Saha, M. (2024). New extension of inverted modified Lindley distribution with applications, *Reliability: Theory & Applications*, 3(79), 788-804.
7. Yadav, A. S., Shukla, S., Saha, M. DebayanKoley, D. and Jaiswal, N. (2024). On Progressively Type-II Censored Inverse Lomax Distribution: Characterizations, Estimation and Application to Cancer Data, *REVSTAT – Statistical Journal*, doi.org/00.00000/revstat.v00i0.000,
8. Pandey, A., Singh, P. K. and Saha, M. (2024): A new lifetime distribution: statistical inference and it's applications, *Statistics and Applications*, 22(2), 91-108.
9. Dey, S. and Saha, M. (2024). Estimation of a new asymmetry based process capability index  $C_c$  for gamma distribution, *Stochastic and Quality Control*, DOI:doi.org10.1515/eqc-2024-0029.
10. MahendraSaha, M., Bhattacharya, A., Pramanik, S., Maiti, S. S. and Gupta, A. (2024). A unified generalized process capability index and its estimation for logistic-exponential distributed characteristic, *European Journal of Industrial Engineering*, DOI:10.1504/EJIE.2025.10066767.
11. Saha, M. and Dutta, S. (2024). Bayesian and non-Bayesian inference of the process capacity index  $S'pk$  under progressive type-II right censored scheme, *Quality and Reliability Engineering International*, doi.org/10.1002/qre.3670.
12. Dey, S., Wang, L. and Saha, M. (2024). Inference of  $S'pmk$  based on bias-corrected methods of estimation for generalized exponential distribution, *International Journal of System Assurance Engineering and Management*, doi.org/10.1007/s13198-024-02533-2.
13. Saha, M., Pareek, P., Maheshwari, S. and Pandey, A. (2024). Time truncated median control charts for logistic-exponential distribution, *Stochastic and Quality Control*, doi.org/10.1515/eqc-2023-0040.

14. Tripathi, H. and MahendraSaha, M. (2024). Modified chain group sampling inspection plan under item failure scenario based on time truncated scheme. *International Journal of System Assurance Engineering and Management*, 15(3), 1305–1314.
15. Saha, M., Tripathi, H. and Dey, S. (2024). Classical inference of a new CNpmkc for logistic-exponential process distribution, *International Journal of Reliability, Quality and Safety Engineering*, DOI:10.1142/S021853932450013Xd.

### Year:2023

1. PandeyR.,andTolaniH.,(2023).ABayesianPerspectiveofMiddle-BattingPositionin ODI Cricket. *Journal of SportsAnalytics*. 9(1), pp. 99 – 108.  
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2. Pandey,R.,Chand,D.B.,&Tolani,H.(2023).Bayesianmultiplelineararregressionmodel for gross domestic product in Bhutan.*Advances andApplications in Statistics*, 87(2), 161-190. <https://pphmjopenaccess.com/aas/article/view/205>
3. Pandey,R.,Chand,D.B.,&Tolani,H.(2023).BayesianMultipleLinearRegression Model for GDP in Nepal. *International Journal of Statistical Distributions and Applications*. 9(1), pp. 9-23. doi: 10.11648/j.ijsd.20230901.12  
<https://www.sciencepublishinggroup.com/article/10.11648/j.ijsd.20230901.12>
4. Singh, P., Mazumder, M. D. and Babu, S. (2023). Construction of Nearly Orthogonal Arrays Mappable into FullyOrthogonalArrays of StrengthTwo andThree. *International Journal of Mathematics and Statistics*, 24(1), 37- 50.  
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5. Banik,S.,Das,M.,Saha,I.,Gong,R.,Singh,P.,Kim,J.,andDas,R.N.(2023).Prostate cancer and cardiovascular disease: Correlated? *OnkologiaiRadioterapia*, 17 (2), 55-6.  
<https://www.oncologyradiotherapy.com/articles/prostate-cancer-and-cardiovascular-disease-correlated-97931.html>
6. Akhter Z.,Almetwally E. M. and Chesneau C. (2022): On the generalized Bilal distribution:Somepropertiesandestimationunderrankedsetsampling.*Axioms*,11(4),

- <https://www.researchgate.net/publication/359931809> On the Generalized Bilal Distribution Some Properties and Estimation under Ranked Set Sampling
7. Pandey, R., and Chand, D. B. (2023). Modelling and Forecasting the Gross Domestic Product of the Nepal Using Autoregressive Integrated Moving Average Models. *International Journal of Statistics and Reliability Engineering*. Vol. 10 (2), pp. 456-465. <https://ijsreg.com/article/view/modeling-and-forecasting-the-gross-domestic-product-of-nepal-using-autoregressive-integrated-moving-average-arma-models>
  8. Singh, P., and Sharma, R., (2023). Construction of Partial Diallel Crossing System using Latin Square Designs. *International Journal of Agricultural and Statistical Sciences*. Vol.19, No.2, pp. 851-858. <https://connectjournals.com/toc/CJ-033252/19/2023/02/December>
  9. Singh, P., and Sharma, R., (2023). Construction of Complete Diallel Crossing System using Latin Square Designs. *International Journal of Statistics and Reliability Engineering*. Vol.10, No.3., pp.597-602. <https://ijsreg.com/article/view/construction-of-complete-diallel-crossing-system-using-latin-square-designs>
  10. Singh, P., Mazumder, M. D. and Babu, S. (2023). Nearly Orthogonal Arrays Mappable into Symmetric Orthogonal Arrays of Strength Two. *International Journal of Statistics and Reliability Engineering*, *17*(8), 621-638 <https://ijsreg.com/article/view/nearly-orthogonal-arrays-mappable-into-symmetric-orthogonal-arrays-of-strength-two>
  11. Singh, P., Mazumder, M. D. and Babu, S. (2023). On the Construction of Mappable Nearly Orthogonal Arrays Using BIBD. *Journal of Xidian University*, *17*(8), 621-638. <https://www.researchgate.net/publication/388795072> On the Construction of Mappable Nearly Orthogonal Arrays Using BIBD
  12. Singh, P., and Shukla, H. (2023). Uniform mixture designs using designs in 2-dimensional spherical region. *International Journal of System Assurance Engineering and Management*, *14*(5), 1888-1897. <https://www.researchgate.net/publication/372360102> Uniform mixture designs using designs in 2-dimensional spherical region
  13. Singh, P., Mazumdar, M. D., and Babu, S. (2023). Mappable Nearly Orthogonal Arrays Using Projective Geometry. *Turkish Journal of Computer and Mathematics Education*

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14. Singh, P., and Kumar, N. (2023). Orthogonal Latin Hypercube Designs with Eight Factors. *International Journal of Agricultural and Statistical Sciences*, 19(1), 427-434.  
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15. Chandra, G., Tampta, B.P., Mohanti, M., Pandey, A. and Latpate, R. (2023). Population and Production of Seed of *Buchanania lanzan* Spreng in Dhenkanal Forest Division of Odisha, India, *Indian Forester*, 149(11), 1133-1139.  
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17. Kumar S., Pathak A., Kumar M., Singh S., and Gupta R. (2023). Bayesian Inference for Functional Response of Stochastic Predator-Prey Model Using Non-Informative Prior *International Journal of Agricultural and Statistical Sciences*, Vol. 19, No. 2, pp. 891-898, pp: 1-3. DOI: <https://doi.org/10.59467/IJASS.2023.19.891>.
18. Pathak, A., Kumar M., Singh S. and Singh U. (2023). Topp–Leone Poisson Exponential Distribution: A Classical and Bayesian Approach, *Journal of the Indian Society for Probability and Statistics*, Springer, pp: 393-417. DOI: [10.1007/s41096-023-00159-4](https://doi.org/10.1007/s41096-023-00159-4).
19. Pathak, A., Kumar M., Singh, S., Singh, U and Kumar, S. (2024). Bayesian estimation of the number of species from Poisson-Lindley stochastic abundance model using non-informative priors, *Computational Statistics*, Springer, pp: 1-24,  
<https://doi.org/10.1007/s00180-024-01464-7>.

### **Year: 2022**

1. Pandey, R., Srivastava, P. and Ali, D. (2022). Bayesian Risk Analysis for Length Biased Log Logistic Distribution under Different Loss Functions. *Journal of Scientific Research*, ISSN: 4479483.  
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2. Pandey, R. and Srivastava, P. (2022). Bayesian Estimation for the Two Log-Logistic Models Under Joint Type II Censoring. *Journal of Reliability and Statistical Studies*, ISSN: 0974-8024 .  
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3. Zuber Akhter, Ehab M. Almetwally and Christophe Chesneau (2022). On the Generalized Bilal Distribution: Some Properties. *Axioms*, MDPI, ISSN: 2075-1680.  
<https://www.mdpi.com/2075-1680/11/4/173>
4. Akhter, Z., Mir Mostafae, S. M. T. K. and Ormoz E. On the Order Statistics of Exponentiated Moment Exponential. *Journal of Statistical Computation and Simulation*, Taylor & Francis, ISSN: 15635163.  
<https://www.researchgate.net/publication/356191346> On the order statistics of exponentiated moment exponential distribution and associated inference
5. R. Pandey and P. Srivastava (2022). Estimation for the Length Biased Log Logistic Model Under Adaptive Progressive Type II Censoring. *International Journal of System Assurance Engineering and Management*, 1-11. <https://doi.org/10.1007/s13198-022-01769-0>. UGC LISTED ISSN: 09756809. IF: 3.2  
<https://www.researchgate.net/publication/363455805> Bayesian inference for two log-logistic populations under joint progressive type II censoring schemes
6. R. Pandey and H. Tolani (2022). Crime Patterns in Delhi: A Bayesian Spatio-temporal Assessment. *International Journal of System Assurance Engineering and Management*. 13(6), pp. 2971-80 [https://ideas.repec.org/a/spr/ijsaem/v13y2022i6d10.1007\\_s13198-022-01768-1.html](https://ideas.repec.org/a/spr/ijsaem/v13y2022i6d10.1007_s13198-022-01768-1.html)
7. R. Pandey and H. Tolani (2022). Penalized Splines Model to Estimate time-varying Reproduction Number for Covid-19 in India: A Bayesian Semi-Parametric Approach. *Clinical Epidemiology and Global Health*. 18, 101176  
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8. Kim, J., Das, M., Saha, I., Sinha, P., Singh, P., and Das, R. N. (2022). Inter-relationship between homeostasis model assessment of insulin resistance & breast cancer biomarkers, *Onkologia i Radioterapia*, 16(4), 34-38.

9. Singh, P., and Sharma, R. (2022). Construction of Complete Diallel Crosses Plans using Galois Field. *International Journal of Agricultural and Statistical Sciences*, 18 (2), 813820.  
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10. Dey, S., Nassar, M., Ali, S., Kumar, D., & Raheem, E. (2022). Comparison of Estimation Methods of the Power Generalized Weibull Distribution. *Statistica*, 82(4), 339–372.  
<https://doi.org/10.6092/issn.1973-2201/12924>.
11. Zuber Akhter, Ehab M. Almetwally and Christophe Chesneau (2022): On the generalized Bilal distribution: Some properties and estimation under ranked sets sampling. *Axioms*, 11(4), 173. <https://www.mdpi.com/2075-1680/11/4/173>
13. Singh, P., and Kumar, N. (2022). Some New Families of Orthogonal Latin Hypercube Designs with Nine Columns. *International Journal of Statistics and Reliability Engineering*, 9(3), 347-352. <https://ijsreg.com/article/view/some-new-families-of-orthogonal-latin-hypercube-designs-with-nine-columns>

#### **Year: 2021**

1. Chakravarty, S., Grover, G., & Aggarwal, S. (2021). Association of Socioeconomic and Demographic Factors With COVID-19 Related Health Outcomes in SAARC Nations. *Statistics and Applications*, ISSN: 2452-7395.  
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3. Grover, G., Saini, R., Ravi, V. & Varshney, M.K. (2021). Markov Chain Modelling of Persistency for Life Insurance in India. *Stochastic Modeling & Applications*, ISSN: 09723641. <https://scholar.google.com/scholar?q=Markov+Chain+Modelling+of+Persistency+for+Life+Insurance+in+India>
4. Grover, G., & Aggarwal, S. (2021). A Study Comparing Cost-Effectiveness of Combination Therapy for Preventing Opportunistic Infections Among Human

Immunodeficiency Virus–Infected Adult on Antiretroviral Therapy. Value in Health Regional Issues, ISSN:2212-1099.<https://scholar.google.com/scholar?q=Cost-Effectiveness+Combination+Therapy+Preventing+Opportunistic+Infections+Grover>

5. Ravi, V., Saini, R., Varshney, M. K. & Grover, G. (2021). Modelling of survival time of life insurance policies in India: a comparative study. International Journal of System Assurance Engineering and Management, ISSN:0975-6809.  
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6. Grover, G., & Magan, R. (2021). Estimation and comparison of poverty line in different states of India by using Quality Adjusted Life year (QALY). Health Science Journal, ISSN:1108-7366.  
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9. Kim, J., Das, R. N., Singh, P., and Lee, Y. (2021). Robust second-order rotatable designs invariably applicable for some lifetime distributions. Communications for Statistical Applications and Methods (CSAM), Vol. 28.  
<https://scholar.google.com/scholar?q=Robust+second-order+rotatable+designs+Kim+Singh>
10. Singh, P., Sarin, V., Midha, N. (2021). Mixture designs generated using orthogonal arrays based on pairwise orthogonal Latin squares. International Journal of Agricultural Statistical Sciences. <https://scholar.google.com/scholar?q=Mixture+designs+generated+using+orthogonal+arrays+mutually+orthogonal+Latin+squares>
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