

Kapil Kumar

Curriculum Vitae

Department of Statistics
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Last updated: October 19, 2026

Academic Positions

- Aug 2025 – Present **Professor**, Department of Statistics, Chaudhary Charan Singh University, Meerut
- Jan 2024 – Aug 2025 **Associate Professor**, Department of Statistics, Chaudhary Charan Singh University, Meerut
- Aug 2022 – Jan 2024 **Associate Professor**, Department of Statistics, Central University of Haryana, Mahendergarh
Head of the Department (September 2022 – January 2024).
- Oct 2021 – Aug 2022 **Assistant Professor (Level 12)**, Department of Statistics, Central University of Haryana, Mahendergarh
- Oct 2016 – Oct 2021 **Assistant Professor (Level 11)**, Department of Statistics, Central University of Haryana, Mahendergarh
- Jun 2016 – Oct 2016 **Assistant Professor (Level 10)**, Department of Statistics, Central University of Haryana, Mahendergarh
- Sep 2012 – May 2016 **Assistant Professor (Ad hoc)**, Department of Statistics, University of Delhi, Delhi
- Teaching experience: 14 years.*

Education

- 2011 **Ph.D. (Statistics)**, Chaudhary Charan Singh University, Meerut
Thesis: *Reliability Inferences with Censored Sample Information.*
- 2008 **M.Phil. (Statistics)**, Chaudhary Charan Singh University, Meerut
- June 2007 **NET (Mathematical Sciences)**, Joint CSIR-UGC
- 2006 **M.Sc. (Statistics)**, Chaudhary Charan Singh University, Meerut
- 2004 **B.Sc. (Mathematics, Physics, Statistics)**, Meerut College, Meerut (Chaudhary Charan Singh University)

Research Interests

Reliability and life testing, statistical inference, Bayesian inference, censored data, survival analysis.

Research Metrics

- Google Scholar Citations: 949; h-index: 16; i10-index: 22 ([profile](#))
- Scopus Citations: 682; h-index: 14; documents: 37 ([Scopus ID 56087498200](#))
- As on 19 October 2026.

Publications

Research Papers (40)

Kapil Kumar in bold; * corresponding author.

2026

40. **Kapil Kumar**, Anju Grewal, Ranjan Kumar Sahoo, and Indrajeet Kumar. Estimation of Stress-Strength System Based on Adaptive Progressively Hybrid Censored Samples. *Soft Computing*, in press. [Springer]
39. Hare Krishna, Ketan Nagar*, and **Kapil Kumar**. Reliability estimation in generalized inverted exponential distribution under block progressive Type-II censoring scheme. *Haceteppe Journal of Mathematics and Statistics*, 55(3), pp. 1454–1485. DOI [Indexing: SCIE, Scopus; ISSN: 2651-477X]
38. Anju Grewal, Ranjan Kumar Sahoo, **Kapil Kumar***, and Anita Kumari. Inference for Two Xgamma Populations based on Joint Progressive Type-II Censored Samples. *Quality & Quantity*, 60(3), pp. 9847–9871. DOI [Indexing: Scopus; ISSN: 1573-7845; Springer]
37. Ketan Nagar, **Kapil Kumar***, and Hare Krishna. Estimation in Inverse Pareto Distribution under Block Random Censoring. *International Journal of Agricultural and Statistical Sciences*, 22(1), pp. 1–14. [Indexing: ESCI; ISSN: 0973-1903]
36. Rajni Goel, **Kapil Kumar**, and Hare Krishna. Estimation in power Lindley distributions using balanced joint progressively Type-II censored data. *Electronic Journal of Applied Statistical Analysis*, 19(1), pp. 35–61. [Indexing: ESCI, Scopus; ISSN: 2070-5948]

2025

35. **Kapil Kumar**, Anita Kumari, and Indranil Ghosh*. Estimation of System Reliability based on Inverted Exponentiated Pareto Distribution under a Progressively First-Failure Censored Scheme with Application. *Quality and Reliability Engineering International*, 41(7), pp. 3197–3219. DOI [Indexing: SCIE, Scopus; ISSN: 1099-1638; Wiley]
34. Anju Grewal, Ranjan Kumar Sahoo, **Kapil Kumar**, and Indrajeet Kumar*. Stress-strength reliability estimation from xgamma distribution based on progressively censored samples. *International Journal of Information Technology*, 17(6), pp. 3415–3424. [Indexing: Scopus; ISSN: 2511-2112; Springer]
33. Ashish Kumar Shukla, Sakshi Soni, and **Kapil Kumar***. Statistical Inference and Prediction in Unified Hybrid Censored Power Lindley Distribution. *Life Cycle Reliability and Safety Engineering*, 14(2), pp. 183–204. DOI [Indexing: Scopus; ISSN: 2520-1360; Springer]
32. Ravi Chaudhary, Monika Saini, Ashish Kumar, and **Kapil Kumar**. Reliability Characteristics Analysis of Ready-Mix Cement Plant under Classical and Bayesian Inferential Framework: A Comparative Analysis. *Brazilian Journal of Biometrics*, 43(3), e-43790. DOI [Indexing: Scopus; ISSN: 2764-5290]

31. Himanshu Choudhary, Hare Krishna, Ketan Nagar, and **Kapil Kumar***. Estimation in Generalized Uniform Distribution with Progressively Type-II Censored Sample. *Life Cycle Reliability and Safety Engineering*, 13(3), pp. 309–323. DOI [Indexing: Scopus; ISSN: 2520-1360; Springer]
30. **Kapil Kumar**, Shrawan Kumar, Renu Garg, and Indrajeet Kumar*. Reliability Estimation for Inverse Pareto Lifetime Model based on Unified Hybrid Censored Data. *International Journal of System Assurance Engineering and Management*, 15(6), pp. 2473–2482. DOI [Indexing: ESCI, Scopus; ISSN: 0975-6809; Springer]
29. Anita Kumari, Indranil Ghosh, and **Kapil Kumar***. Bayesian and Likelihood Estimation of Multicomponent Stress-Strength Reliability from Power Lindley Distribution based on Progressively Censored Samples. *Journal of Statistical Computation and Simulation*, 94(5), pp. 923–964. DOI [Indexing: SCIE, Scopus; ISSN: 0094-9655; Taylor & Francis]
28. Anita Kumari, **Kapil Kumar***, and Indrajeet Kumar. Bayesian and Classical Inference in Maxwell Distribution under Adaptive Progressively Type-II Censored Data. *International Journal of System Assurance Engineering and Management*, 15(3), pp. 1015–1036. DOI [Indexing: ESCI, Scopus; ISSN: 0975-6809; Springer]
27. **Kapil Kumar**, Indrajeet Kumar, and Hon Keung Tony Ng*. On Estimation of Shannon's Entropy of Maxwell Distribution Based on Progressively First-Failure Censored Data. *Stats*, 7(1), pp. 138–159. DOI [Indexing: ESCI, Scopus; ISSN: 2571-905X; MDPI]
26. Rajni Goel, **Kapil Kumar**, Hon Keung Tony Ng, and Indrajeet Kumar*. Statistical inference in Burr Type XII lifetime model based on progressive randomly censored data. *Quality Engineering*, 36(1), pp. 150–165. [Indexing: SCIE, Scopus; ISSN: 1532-4222; Taylor & Francis]

25. **Kapil Kumar*** and Anita Kumari. Bayesian and Likelihood Estimation in Two Inverse Pareto Populations under Joint Progressive Censoring. *Journal of the Indian Society for Probability and Statistics*, 24(2), pp. 283–310. DOI [Indexing: ESCI, Scopus; ISSN: 2364-9569; Springer]
24. Sakshi Soni, Ashish Kumar Shukla, and **Kapil Kumar***. Estimation and Prediction in Generalized Half Logistic Lifetime Model using Hybrid Censored Data. *International Journal of Quality & Reliability Management*, 40(9), pp. 2041–2063. DOI [Indexing: ESCI, Scopus; ISSN: 0265-671X; Emerald Publishing]
23. Ashish Kumar, Ravi Chaudhary, **Kapil Kumar**, Monika Saini, Dinesh Kumar Saini, and Punit Gupta*. Stochastic Modeling and Parameter Estimation of Turbogenerator Unit of a Thermal Power Plant under Classical and Bayesian Inferential Framework. *PLOS ONE*, 18(10), e0292154. DOI [Indexing: SCIE, Scopus; ISSN: 1932-6203]
22. Ashish Kumar Shukla, Sakshi Soni, and **Kapil Kumar***. An Inferential Analysis for the Weibull-G Family of Distributions under Progressively Censored Data. *OPSEARCH*, 60(3), pp. 1488–1524. DOI [Indexing: ESCI, Scopus; ISSN: 0030-3887; Springer]
21. Indrajeet Kumar, Shishir Kumar Jha, and **Kapil Kumar***. On Some Estimation Methods for the Inverse Pareto Distribution. *Annals of Data Science*, 10(4), pp. 1035–1068. DOI [Indexing: Scopus; ISSN: 2198-5812; Springer]
20. Anita Kumari and **Kapil Kumar***. Bayesian and Non-Bayesian Estimation in Log-Logistic Lifetime Model using Adaptive Progressively Censored Data. *International Journal of Agricultural and Statistical Sciences*, 19(1), pp. 17–32. [Indexing: ESCI; ISSN: 0973-1903]

19. Ashish Kumar^{*}, Ravi Chaudhary, **Kapil Kumar**, and Monika Saini. Stochastic Modeling of Single Unit Systems with Deliberated Failures Subject to Warranty. *Revista Investigación Operacional*, 44(2), pp. 317–322. [Indexing: Scopus; ISSN: 0257-4306]
18. Indrajeet Kumar, **Kapil Kumar**^{*}, and Indranil Ghosh. Reliability Estimation in Inverse Pareto Distribution using Progressively First Failure Censored Data. *American Journal of Mathematical and Management Sciences*, 42(2), pp. 126–147. DOI [Indexing: Scopus; ISSN: 0196-6324; Taylor & Francis]
17. Anita Kumari, Shrawan Kumar, and **Kapil Kumar**^{*}. Inference for Reliability in a Multicomponent Stress-Strength Model from Generalized Inverted Exponential Lifetime Distribution under Progressive First Failure Censoring. *Journal of Statistical Computation and Simulation*, 93(6), pp. 863–887. DOI [Indexing: SCIE, Scopus; ISSN: 0094-9655; Taylor & Francis]
[2022](#)
16. Anita Kumari, Shrawan Kumar, and **Kapil Kumar**^{*}. Multicomponent Stress-Strength Reliability Estimation of Inverse Pareto Lifetime Model under Progressively Censored Data. *International Journal of Agricultural and Statistical Sciences*, 18(2), pp. 475–486. [Indexing: ESCI, Scopus; ISSN: 0973-1903]
15. Indrajeet Kumar and **Kapil Kumar**^{*}. On Estimation of $P(V < U)$ for Inverse Pareto Distribution under Progressively Censored Data. *International Journal of System Assurance Engineering and Management*, 13(1), pp. 189–202. DOI [Indexing: ESCI, Scopus; ISSN: 0975-6809; Springer]
[2021](#)
14. Renu Garg^{*} and **Kapil Kumar**. On Estimation of $P(Y < X)$ for Generalized Inverted Exponential Distribution based on Hybrid Censored Data. *Statistica*, 81(3), pp. 335–361. DOI [Indexing: ESCI, Scopus; ISSN: 1973-2201]
13. Manisha Sharma, **Kapil Kumar**, and Kashyap Kumar Dubey^{*}. Disposal of Unused Antibiotics as Household Waste: A Social Driver of Antimicrobial Resistance. *Environmental Quality Management*, 30(4), pp. 127–140. DOI [Indexing: ESCI, Scopus; ISSN: 1520-6483; Wiley]
[2020](#)
12. **Kapil Kumar**^{*} and Indrajeet Kumar. Parameter Estimation for Inverse Pareto Distribution with Randomly Censored Life Time Data. *International Journal of Agricultural and Statistical Sciences*, 16(1), pp. 419–430. [Indexing: ESCI, Scopus; ISSN: 0973-1903]
[2019](#)
11. **Kapil Kumar**^{*} and Indrajeet Kumar. Estimation in Inverse Weibull Distribution based on Randomly Censored Data. *Statistica*, 79(1), pp. 47–74. DOI [Indexing: ESCI, Scopus; ISSN: 1973-2201]
[2018](#)
10. Ajit Chaturvedi, Narendra Kumar, and **Kapil Kumar**^{*}. Statistical Inference for the Reliability Functions of a Family of Lifetime Distributions Based on Progressive Type II Right Censoring. *Statistica*, 78(1), pp. 81–101. DOI [Indexing: ESCI; ISSN: 1973-2201]
9. **Kapil Kumar**^{*}. Classical and Bayesian Estimation in Log-Logistic Distribution under Random Censoring. *International Journal of System Assurance Engineering and Management*, 9(2), pp. 440–451. DOI [Indexing: ESCI, Scopus; ISSN: 0975-6809; Springer]

[2017](#)

8. **Kapil Kumar***, Renu Garg, and Hare Krishna. Nakagami Distribution as a Reliability Model under Progressive Censoring. *International Journal of System Assurance Engineering and Management*, 8(1), pp. 109–122. [DOI](#) [Indexing: ESCI, Scopus; ISSN: 0975-6809; Springer]

[2016](#)

7. Renu Garg, Madhulika Dube, **Kapil Kumar***, and Hare Krishna. On Randomly Censored Generalized Inverted Exponential Distribution. *American Journal of Mathematical and Management Sciences*, 35(4), pp. 361–379. [DOI](#) [Indexing: Scopus; ISSN: 0196-6324; Taylor & Francis]

[2015](#)

6. Hare Krishna, Vivekanand, and **Kapil Kumar***. Estimation in Maxwell Distribution with Randomly Censored Data. *Journal of Statistical Computation and Simulation*, 85(17), pp. 3560–3578. [DOI](#) [Indexing: SCIE, Scopus; ISSN: 0094-9655; Taylor & Francis]
5. **Kapil Kumar***, Hare Krishna, and Renu Garg. Estimation of $P(Y < X)$ in Lindley Distribution using Progressively First Failure Censoring. *International Journal of System Assurance Engineering and Management*, 6(3), pp. 330–341. [DOI](#) [Indexing: ESCI, Scopus; ISSN: 0975-6809; Springer]

[2014](#)

4. **Kapil Kumar** and Renu Garg. Estimation of the Parameters of Randomly Censored Generalized Inverted Rayleigh Distribution. *International Journal of Agricultural and Statistical Sciences*, 10(1), pp. 147–155. [Indexing: ESCI, Scopus; ISSN: 0973-1903]

[2013](#)

3. Hare Krishna and **Kapil Kumar**. Reliability Estimation in Generalized Inverted Exponential Distribution with Progressively Type-II Censored Sample. *Journal of Statistical Computation and Simulation*, 83(6), pp. 1007–1019. [DOI](#) [Indexing: SCIE, Scopus; ISSN: 0094-9655; Taylor & Francis]

[2011](#)

2. Hare Krishna and **Kapil Kumar**. Reliability Estimation in Lindley Distribution with Progressively Type-II Right Censored Sample. *Mathematics and Computers in Simulation*, 82(2), pp. 281–294. [DOI](#) [Indexing: SCIE, Scopus; ISSN: 0378-4754; Elsevier Science Publishers]
1. Hare Krishna and **Kapil Kumar**. Reliability Estimation in Generalized Gamma Distribution with Progressively Censored Data. *International Journal of Agricultural and Statistical Sciences*, 7(1), pp. 15–29. [Indexing: ESCI, Scopus; ISSN: 0973-1903]

[Book Chapters and Conference Papers \(2\)](#)

2. Ravi Chaudhary, Ashish Kumar, Monika Saini, **Kapil Kumar** (2025). Behavioral Analysis of Single-Unit Systems with Weibull Densities under Classical and Bayesian Framework. In: Tuba, M., Akashe, S., Joshi, A. (eds) *ICT Systems and Sustainability. ICT4SD 2024. Lecture Notes in Networks and Systems*, vol 1159, pp. 233–244. (Springer). [DOI](#)
1. **Kapil Kumar*** and Anita Kumari (2023). Inferences for Two Inverse Rayleigh Populations Based on Joint Progressively Type-II Censored Data. In: Malik, S. C., Sinwar, D., Kumar, A., Gadde, S. R., Chatterjee, P., Hung, B. T. (eds) *Computational Intelligence in Sustainable Reliability Engineering*, Chapter 8, pp. 159–179. ISBN: 978-1-119-86501-8 (Wiley). [DOI](#)

Books and Edited Proceedings (3)

3. Rajesh Kumar Gupta, Rajesh Kumar Sharma, Phool Singh, Anil Kumar Yadav, **Kapil Kumar*** (Eds.) (2024). *Frontiers in Industrial and Applied Mathematics (FIAM-2022)*, AIP Conference Proceedings, Volume 3081. Proceedings of the 5th International Conference on Frontiers in Industrial and Applied Mathematics held from 22 to 23 December 2022 at Central University of Haryana, Mahendergarh, India. AIP Publishing. ISBN: 978-0-7354-4863-6.
2. Hare Krishna and **Kapil Kumar** (2016). *Statistical Methods-II*, 3rd Edition. Shree Sai Prakashan, India. ISBN: 978-93-80965-67-3.
1. Hare Krishna and **Kapil Kumar** (2011). *Business Statistics*. Shree Sai Prakashan, India. ISBN: 978-93-80965-33-8.

Research Guidance

Ph.D. Theses Awarded (3)

- 2025 Ravi Chaudhary (co-supervision). *Classical and Bayesian Analysis of Repairable Systems with Arbitrary Failure and Repair Distributions*. Now Assistant Professor, Centre for Distance and Online Education, Manipal University, Jaipur.
- 2023 Anita Kumari. *Inferential Procedures for Some Lifetime Models under Censored Data*. Now Assistant Professor, Department of Data Science, CHRIST University, Pune.
- 2022 Indrajeet Kumar. *Classical and Bayesian Estimation Methods for Censored Data*. Now Assistant Professor, Department of Statistics, Central University of South Bihar, Gaya.

Ph.D. Scholars (In Progress) (3)

- 2025 – Sarika.
- 2025 – Ashutosh Sharma.
- 2022 – Anju Grewal (co-supervision).

M.Sc. Projects and Dissertations (29)

- 2023 Bhawana Sharma. *Reliability Estimation in Multicomponent Stress-Strength Based on Lifetime Models: A Review*.
- Kusum. *Bayesian Estimation for Some Type II Censored Lifetime Models: A Review*.
- Shivam Sachan. *Estimation on the Reliability with Parameter Stress-Strength in Lifetime Models: A Review*.
- Swati Tripathi. *Estimation of Some Lifetime Models Based on Left Censored Data: A Review*.
- 2022 D Subhashni. *A Study on GDP of India during 1970-2021*.
- Gaurav. *Bayesian Estimation for Ridge Regression Parameter under Different Loss Functions: A Review*.
- Naveen. *A Gender Differential in Prevalence of Hypertension Among Older Adults in India*.
- Radhika. *Forecasting Deaths due to Suicides in Different Zones of India from 2021 to 2025*.
- Ravish. *Bayesian and Classical Estimation in Some Lifetime Models under Left Censoring: A Review*.
- Sunkara P. Kumar. *Study of Gold Price in Different Countries during 1990-2021*.
- 2021 Anushka. *Reliability Estimation in Multicomponent Stress-Strength Model for Some Lifetime Distributions*.

- Neelakshi Vasnik. *E-Bayesian Estimation and Hierarchical Bayesian Estimation for Different Lifetime Models: A Review*.
- Sachin Kumar. *Estimation of Reliability of Stress-Strength Models: A Review*.
- Yashdev. *Some New Ridge Parameter for Ridge Regression: A Review*.
- 2020 Ankit Kumar. *Delhi Air Pollution: Regression Analysis and Prediction of Air Quality Index*.
- Sumit Kumar. *Bayesian Estimation for Some Interval Censored Lifetime Models: A Review*.
- Sushma. *Estimation in Some Randomly Censored Lifetime Distributions: A Review*.
- 2019 Pooja Kumari. *Meta Analysis: An Introduction*.
- Sunil Machara. *Classical Estimation in Some Reliability Models: A Review*.
- Rajbala. *Analysis of Some Data Sets using Regression Techniques*.
- Anita Kumari. *Bayesian Estimation for Some Lifetime Distributions: A Review*.
- Jyoti. *Classical Estimation Procedures for Some Statistical Distributions: A Review*.
- Pawan Kumar. *Reliability and Life Testing: A Review*.
- 2018 Jogesh Dhiman. *Data Analysis using R and Python*.
- Deekshith Peruka. *Data Analysis using SPSS*.
- Sheetal Yadav. *A Review of Estimation Procedures for Some Lifetime Distributions*.
- 2017 Allen V. Thundiylil. *Estimation in Some Lifetime Models*.
- Kuldeep Sharma. *Maximum Likelihood Estimation in Some Reliability Models*.
- Pavitra Kumari. *Bayesian Estimation in Some Lifetime Models*.

Subjects Taught

Ph.D. coursework	Reliability and Life Testing; Survival Analysis.
M.Sc. Statistics	Bayesian Inference; Survival Analysis; Sampling Techniques; Statistical Methodology; Statistical Computing using R; Statistical Inference; Linear Models; Design of Experiments.
B.Sc. (Hons.)	Design of Experiments; Linear Models and Regression Analysis; Econometrics.

Administrative Assignments

Chaudhary Charan Singh University, Meerut

- Member, Internal Quality Assurance Cell (IQAC) Committee, CCS University, Meerut.
- Deputy Admission Coordinator, Admission Committee for admissions in CCS University Campus and its affiliated colleges/institutions for the academic session 2025-26.
- Member, Sustainable Development Goals groups, CCS University, Meerut, for academic session 2025-26.
- Member, State Common Admission Module through Samarth Committee, CCS University, Meerut, for academic session 2025-26.
- Member, Anti Ragging Squad (ARS) Committee-05 (Friday), CCS University, Meerut, for Academic Session 2024-25 and 2025-26.
- Worked as Head of the Department of Statistics, Central University of Haryana from 15-09-2022 to 29-01-2024.

Central University of Haryana and University of Delhi

- Worked as Convener of Annual Reports for the financial years 2021-2022 and 2022-23 of Central University of Haryana.
- Worked as Deputy Director of the Training and Placement Cell, Central University of Haryana, from 29-03-2022 to 29-01-2024.
- Worked as a Member of the School Board of the School of Basic Science, Central University of Haryana, from 23-06-2020 to 29-01-2024.
- Worked as a Member of the Departmental Research Committee, Department of Statistics, Central University of Haryana, from 10-06-2016 to 29-01-2024.
- Worked as a Member of the AQAR Committee, Criteria-IV for the session 2021-2022.
- Worked as a Member of the NAAC Committee, Criteria-IV, to prepare SSR 2022.
- Worked as a Member of the School Board of the School of Physical and Mathematical Sciences, CUH from 19-06-2018 to 22-06-2020.
- Worked as a Member of the Board of Studies, Department of Statistics, CUH from 10-06-2016 to 15-01-2019 and from 16-01-2019 to 15-01-2022.
- Worked as Faculty Coordinator of Credence - The Placement Cell of the Department of Statistics, University of Delhi, for academic sessions 2013-2016.
- Worked as a Member of the Purchase Committee, Department of Statistics, University of Delhi, for academic sessions 2013-2016.
- Worked as a Member of the Syllabus Revision Committee for B.Sc. (Hons.) Statistics under the Choice Based Credit System (CBCS), Department of Statistics, University of Delhi, for the academic session 2014-2015.
- Worked as a Member of the Syllabus Revision Committee for B.Sc. (Hons.) Statistics under Four Year Undergraduate Programme (FYUP), Department of Statistics, University of Delhi, for the academic session 2012-2013.

Conferences, Webinars and Workshops Organized (12)

- Convenor, One Week Online National Workshop on Statistical Data Analysis using SPSS & R, held from 20–24 March 2023, organized by the Department of Statistics, Central University of Haryana, Mahendergarh, under the Aegis of Azadi Ka Amrit Mahotsav.
- Organizing Secretary at the 5th International Conference on Frontiers in Industrial and Applied Mathematics from December 22-23, 2022, organized by the Department of Mathematics, Central University of Haryana, Mahendergarh, Haryana, India.
- Organizing Secretary, An International Webinar on “An Introduction to Statistical Meta-Analysis with an Application”, for the celebration of VIGYANUTSAV under the aegis of Azadi Ka Amrit Mahotsav on April 07, 2022, by the Department of Statistics, Central University of Haryana.
- Organizing Secretary, One Week Online National Workshop on Applications of Statistical Tools in Data Analysis (ASTDA-2022), held from 21 to 25 March 2022, organized by the Department of Statistics, Central University of Haryana, Mahendergarh, under the Aegis of Azadi Ka Amrit Mahotsav (AKAM).
- Organizing Secretary, Webinar on “Estimating Ordered Parameters and Estimating Mean Under Restrictions in Normal Exponential Populations”, for the celebration of VIGYANUTSAV under the aegis of Azadi Ka Amrit Mahotsav on February 09, 2022, by the Department of Statistics, Central University of Haryana.

- Convenor, One Week Online National Workshop on Applications of Mathematical and Statistical Tools from March 20-24, 2021, organized by the Department of Mathematics, Department of Statistics, and School of Education under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), Central University of Haryana, Mahendergarh-123031.
- Member of the Organizing Committee, National Science Day on February 28, 2020, 2021, 2022.
- Member of the Organizing Committee, International Conference on Trends in Computational and Cognitive Engineering from November 28 to 30, 2019, organized by the School of Engineering & Technology and Department of Mathematics, Central University of Haryana, Mahendergarh (Sponsored by CSIR and DST-SERB).
- Coordinator, Two-Day Annual Interdisciplinary National Conference On “Transcending Borders and Disciplines: Culture, Literature and Society” during April 27-28, 2019, organized by IQAC, Central University of Haryana.
- Member, Organizing Committee, Two Week Interdisciplinary Faculty Development Programme on Data Analysis using Software Packages during December 12-24, 2018, organized by the Department of Statistics & IQAC, Hindu College, University of Delhi, Delhi.
- Co-Convener, National Workshop on “Statistical Techniques and Data Analysis using R” during March 19-23, 2018, organized by the Department of Statistics, Central University of Haryana, Mahendergarh.
- Member, Organizing Committee, Workshop on “Statistical Computing using R” during September 14-15, 2013, organized by the Department of Statistics, University of Delhi.

Resource Person

Invited Talks in Conferences (6, including 1 forthcoming)

- Invited to deliver an invited talk at the Annual Conference of the International Indian Statistical Association (IISA-2026), to be held from December 26–30, 2026 at Banaras Hindu University, Varanasi, Uttar Pradesh, India (forthcoming).
- Delivered an invited talk on the topic, Reliability Inference for a Multicomponent Stress–Strength System under Progressive First-Failure Censoring, on February 06, 2026 at the International Conference on Artificial Intelligence, Mathematical Sciences and Statistical Data Science (AIMSSDS–2026), organized by the School of Mathematics, Statistics and Computer Science, Central University of South Bihar, Gaya, Bihar, India.
- Delivered an invited talk on the topic, Estimation of Shannon’s Entropy of Maxwell Distribution under Censored Data, on February 11, 2025 at a National Conference on Time Series, Analytics & Recent Advances in Statistical Modelling organized by the Department of Statistics, Central University of Rajasthan, Kishangarh, Rajasthan, India.
- Delivered an invited talk on the topic, Bayesian Estimation in Progressively First-Failure Censored Inverse Pareto Distribution, on December 22, 2024 at an International Conference on Innovative Trends in Statistics, Optimization and Data Science organized by the Department of Statistics and Operational Research, Kurukshetra University, Kurukshetra, Haryana, India.
- Delivered an invited lecture, On Bayesian Analysis of the Randomly Censored Log-Logistic Distribution, on August 10, 2019 at the 24th International Conference of the International Academy of Physical Sciences on Innovation in Physical Sciences, CCS University, Meerut, India.

- Delivered an invited lecture, “Estimation in Stress-Strength Model with Lindley Distribution using Progressively First Failure Censored Data”, National Conference on Recent Statistical Computing Techniques and their Applications during March 11-12, 2016, at Ramanujan College, University of Delhi, Delhi, India.

Invited Lectures in Workshops (18)

- Delivered invited lectures on the topics “Parametric Tests using R and Reporting with R Markdown”, as an Invited Speaker, organized by the Department of Statistics, University of Lucknow, India, on March 25, 2026.
- Delivered invited lectures on the topics “R Programming”, as an Eminent Speaker, organized by the Department of Mathematics, Chaudhary Bansi Lal University, Bhiwani, India, on October 18, 2025.
- Delivered an invited lecture on the topic “Time Series Modeling using R” in One Week Online FDP on “Advanced Statistical Software, Methodologies, and Data Visualization for Research Excellence”, organized by the Department of Mathematics & Statistics, Manipal University, Jaipur, India, on June 26, 2025.
- Delivered invited lectures on the topics “An Introduction to R” and “Exploratory Data Analysis using R” at a Short Term Program on “Applications of Computational Softwares in Mathematical Sciences and Engineering, organized by the UGC-Malaviya Mission Teacher Training Center of Central University of Haryana, Mahendergarh, India, on May 21 and 22, 2025, respectively.
- Delivered an invited lecture on the topic “Practical Utility of Correlation and Regression through R” at a one-week online national workshop on “Statistical Data Analysis using SPSS & R (SDASR), organized by the Department of Statistics, Central University of Haryana, Mahendergarh, India, on March 18, 2025.
- Delivered two invited lectures on the topic, “Application of R in Research in Social Science”, in a Research Methodology Workshop organized by CITD, SIS, JNU, New Delhi on February 26, 2025.
- Delivered an invited lecture on the topic, “Basic Statistics with R”, in a One-Week FDP on “Data Analytics and Decision Making with Statistical Software for Entrepreneurs and Innovators” from 27 to 31 August 2024, organized by the Department of Mathematics and Statistics, Manipal University, Jaipur, India on August 27, 2024.
- Delivered an invited lecture on the topics “Data Analysis and Statistical Simulation using R”, a One-Week FDP/short-term course on “Data Analysis using Open Source Tools” from 22 to 27 April 2024, organized by the Department of Information and Communication Technology and Department of Mathematics Chaudhary Bansi Lal University, Bhiwani, India on April 23, 2024.
- Delivered two invited lectures on the topics “Testing of Hypothesis using R” and “Practical Utility of Correlation and Regression through R” One Week Online National Workshop on “Statistical Data Analysis using SPSS & R (SDASR), organized by the Department of Statistics, Central University of Haryana, Mahendergarh, India on March 12, 2024.
- Delivered an invited talk entitled, ‘Hands-on Training on Data Analytics through Statistical Tools’ in the Department of Mathematics, SGT University, Gurugram, India on April 06, 2023.
- Delivered an invited talk entitled, ‘Data Analytics and Introduction to R’ in the One Day E-Workshop on ‘Data Analytics’ organized by the Department of Mathematics & Statistics, Manipal University, Jaipur, India, on the occasion of National Statistics Day on June 29, 2022.
- Delivered two invited lectures on the topics “Basics of R” and “Regression Analysis with R” in a One Week Workshop on Econometrics for Research in Economics (EFRIE 2022), organized by the Department of Economics, Central University of Haryana, Mahendergarh, Haryana, India on April 28, 2022.

- Delivered a series of invited lectures on the topic, “Statistical Analysis with R”, in a One-Week Workshop on Statistical Analysis with R, organized by the Department of Mathematics, SRM University, Delhi – NCR, Sonipat, Haryana, India on April 05, 2022.
- Delivered an invited lecture on the topic, “Data Analysis using R”, in the Refresher Course in Statistical Computing (Multidisciplinary), organized by the University of Rajasthan, Jaipur, India, on February 05, 2022.
- Delivered an invited lecture on the topic, “Applications on Statistical Software R”, in One Week Online National Workshop on Applications of Mathematical and Statistical Tools, Central University of Haryana, Mahendergarh, India, on March 23, 2021.
- Delivered a series of lectures on the topic, “Data Analysis using R”, in a One-Day Workshop at Manipal University, Jaipur, India, on February 09, 2019.
- Delivered a series of lectures on the topic, “Data Science using R-Programming”, in a Two-Day Workshop at Hindu College, University of Delhi, Delhi, India, from 2 to 3 November 2018.
- Delivered a series of lectures on the topic, “Statistical Techniques using R”, in the Faculty Induction Training Programme under PMMMNTT, Central University of Haryana, Mahendergarh, India, on June 22 and 29, 2018.

Sessions Chaired in Conferences (6)

- Chaired a Session at the 5th International Conference on Frontiers in Industrial and Applied Mathematics, organized by the Department of Mathematics, Central University of Haryana, Mahendergarh, Haryana, India, from December 22-23, 2022.
- Chaired a Session at the 4th International Conference on Frontiers in Industrial and Applied Mathematics (Virtual Conference), organized by SLIET Longowal, Punjab, from December 21-22, 2021.
- Chaired a Session at the International Conference (Online) on Recent Application of Statistical Techniques and Analysis (RASTA-2021), organized by the Department of Statistics, Banaras Hindu University, Varanasi, India, from 15-17 December 2021.
- Chaired a Session in the National webinar on the topic, “Living with Covid-19: Holistic Sustainable Solutions, organized by Nari Shiksha Niketan PG College, Lucknow, India, on June 07, 2020.
- Chaired a Session at the 24th International Conference of the International Academy of Physical Sciences on Innovation in Physical Sciences at CCS University, Meerut, India, from August 09-11, 2019.
- Chaired a Session at the National Conference on Recent Statistical Computing Techniques and their Applications at Ramanujan College, University of Delhi, Delhi, India, from March 11-12, 2016.

Conference Presentations (19)

International Conferences (13)

- Attended and presented a research paper, “Reliability Estimation in Log-Logistic Distribution Based on the Adaptive Progressively Hybrid Censored Data”, International Conference on “Global Advances in Statistical Modelling, Optimization Techniques, and Data Science (IC-GASMOTDS-2025)” from 28 to 30 November 2025, organized by the Department of Statistics, M.D. University, Rohtak, India.
- Attended and presented a research paper, “Estimation in the Inverse Chen Lifetime Models using Joint Type-II Censored Data”, International Conference on Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications held from December 24 - 26, 2023, organized by the Department of Statistics, M.D. University, Rohtak, India.
- Attended and presented a research paper, “Multicomponent Stress-strength Reliability Estimation in Generalized Inverted Exponential Distribution based on Censored Data,” at the IX International Symposium on Statistics and Optimization held from October 28 - 29, 2023, at the Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh, India.
- Attended and presented a research paper, “Comparison of Estimation Methods for the Inverse Pareto Distribution, at the International Conference on Knowledge Discoveries on Statistical Innovations & Recent Advances in Optimization held from 29th to 30th December 2022, organized by the Department of Statistics, Andhra University, Visakhapatnam, India.
- Attended and presented a research paper, “Statistical Inference in Inverse Pareto Distribution using Randomly Censored Samples”, at the International Virtual Conference on Statistics and Data Science: Theory and Practice for Progress and Prosperity, held from 11th – 13th March 2022, organized jointly by the Indian Society for Probability and Statistics and Department of Statistics, University College of Science, Osmania University, Hyderabad, India.
- Attended and presented a paper, “Estimation of Stress-Strength Reliability in a Family of Lifetime Models using Progressively Censored Data”, at the 4th International Conference on Frontiers in Industrial and Applied Mathematics (Virtual Conference) during December 21-22, 2021, organized by SLIET Longowal, Punjab, India.
- Attended and presented a paper, “Reliability Estimation in Inverse Pareto Distribution under Progressive Censoring”, at the Online International Conference on Recent Advances in Computational Mathematics & Engineering from March 19-21, 2021, at BK Birla Institute of Engineering & Technology, Pilani, India.
- Attended and presented a paper, “On Random Censoring: Classical and Bayesian Estimation Methods, at the International Conference on Emerging Innovations in Statistics & Operations Research from December 27-30, 2018, at MD University, Rohtak, India.
- Attended and presented a paper, “Stress-Strength Reliability Estimation for Exponentiated Inverted Exponential Distribution using Hybrid Censored Samples”, at the International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling during December 21-23, 2018, at the University of Delhi, Delhi, India.
- Attended and presented a paper, “Exponentiated Inverted Exponential Distribution under Random Censoring”, at the International Conference on Recent Trends of Computing in Mathematics, Statistics & Information Technologies during March 09-11, 2018, at Bundelkhand University, Jhansi, India.

- Attended and presented a paper, “On Randomly Censored Inverse Weibull Distribution”, VIII International Symposium on Statistics and Optimization in Conjunction with XXXVI- Annual Convention of Indian Society for Probability & Statistics (ISPS) during December 17-19, 2016, at Aligarh Muslim University, Aligarh, India.
- Attended and presented a paper, “Reliability Inferences in Lindley Distribution with Progressively Type II Right Censored Sample”, International Conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Bio-Statistics, Bio-Informatics and Computer Applications from January 5 - 8, 2011, organized by Banaras Hindu University, Varanasi, India.
- Attended and presented a paper, Reliability Inferences on Exponentiated Inverted Exponential Distribution under Progressive Type-II Censoring, International Conference on Development and Applications of Statistics in Emerging Areas of Science & Technology, December 8 - 10, 2010, at the University of Jammu, Jammu, India.

National Conferences (6)

- Attended and presented a paper entitled, “Estimation for an Inverse Rayleigh Distribution under Joint Progressive Censoring”, at the National Conference on Mathematics, Statistics and Data Analysis Using R (NCMSDR – 2024) during March 1-2, 2024, organized by the Department of Statistics, Acharya Nagarjuna University, Nagarjuna Nagar-522510 Guntur, India.
- Attended and presented a paper, “Estimation of Reliability from the Inverse Pareto Distributions based on the Progressively Censored Samples”, National Conference on Recent Advances in Data Science from December 15-17, 2023, organized by the School of Advanced Sciences, VIT-AP University, Vijayawada, India.
- Attended and presented a paper, “Estimation in Log-logistic Distribution under Random Censoring, ” at the National Conference on Statistics and Optimization in Techniques from February 11 - 13, 2017, in MD. University, Rohtak, India.
- Attended and presented a paper, “Inverted Exponentiated Rayleigh Distribution under Random Censoring”, National Conference on Recent Trends and Developments in Statistics during February 21-23, 2015, at MD University, Rohtak, India.
- Attended and presented a paper, “Estimation of Parameters of Nakagami Distribution with Progressively Censored Samples, National Conference on Statistical Inference, Sampling Techniques and Related Areas, February 18-19, 2014, at Aligarh Muslim University, Aligarh, India.
- Attended and presented a paper, Inferences on Scale Parameter of Progressively Censored Generalized Gamma Distribution, National Conference on Statistical Inference, Sampling Techniques and Related Areas, March 28-29, 2011, at Aligarh Muslim University, Aligarh, India.

Workshops, Conferences and FDPs Attended (10)

- Attended the V International Applied Statistics Congress (UYIK-2024) via Online Mode held in Istanbul, Turkiye, on May 21-23, 2024.
- Attended a one-week online national workshop on “Mathematical Modelling with Simulation in Applied Sciences” sponsored by DST-SERB and organized by the Department of Mathematics, Central University of Haryana, Mahendergarh, India, from May 22-26, 2023.
- Attended a Workshop on “NEP-2020 Implementation and National Curriculum Framework: NCrF, IKS, & Mulya Pravah” organized by the Central University of Haryana, Mahendergarh, held on May 12, 2023.
- Attended a National Conference on “Bharat Ka Vigyan Mein Yogdan” organized by the Department of Biochemistry, Central University of Haryana, Mahendergarh, held on March 5, 2020.
- Attended a one-week workshop on “Professional Development and Capacity Building of Teaching of Higher Education Institutions” during March 11 - 18, 2019, at Central University of Haryana, Mahendergarh, India.
- Attended a Workshop on “Reliability Theory and Survival Analysis” during November 04-06, 2015, at Panjab University, Chandigarh, India.
- Attended a Workshop on “Information Literacy & Competency” on January 17, 2013, organized by the University of Delhi, Delhi, India.
- Attended a Workshop on “Statistical Analysis for Engineers”, from July 2-6, 2012, organized by the Indian Institute of Technology, Kanpur, India.
- Attended a Workshop on “Reliability Theory and Survival Analysis”, during November 23-25, 2011, organized by the Indian Statistical Institute, Kolkata, India.
- Attended a Workshop on “Modern Tools in Applied Statistics” from December 4-7, 2010, at the University of Jammu, Jammu, India.

Orientation and Refresher Courses (4)

- Participated in Two-Week Interdisciplinary Refresher Course in Research Methodology under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) Sponsored by the Ministry of Education, conducted by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi, from September 21, 2021, to October 05, 2021, and obtained an “A+” grade.
- Participated in Two Week Refresher Course in Statistics on "Application of Statistical Techniques in Real World" under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) sponsored by the Ministry of Education conducted by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during May 01-15, 2021, and obtained “A+” grade.
- Participated in UGC Sponsored Refresher Course on 2nd Computational and Mathematical Sciences conducted by UGC-Human Resources Development Centre, Jamia Millia Islamia University, New Delhi, during February 07-20, 2020, and obtained an “A” grade.
- Participated in a four-week UGC Sponsored 110th Orientation Programme conducted by UGC-Human Resources Development Centre, Jawaharlal Nehru University, New Delhi, from July 23, 2018, to August 17, 2018, and obtained an “A” grade.

Professional Memberships

- Life Member of the International Indian Statistical Association.
- Life Member of the Indian Society for Probability and Statistics (LM/2018/36/1213).
- Life Member of Vigyan Bharati.
- Life Member of the Association of Inventory Academicians and Practitioners.
- Life Member of the Indian Science Congress Association.

Reviewer for Academic Journals

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| Springer | Annals of Data Science, Communications in Mathematics and Statistics, International Journal of Information Technology, International Journal of System Assurance Engineering and Management, Iran Journal of Computer Science, Life Cycle Reliability and Safety Engineering, Journal of Nonlinear Mathematical Physics. |
| Taylor & Francis | Communications in Statistics - Theory and Methods, Journal of Applied Statistics, Journal of Statistical Computation and Simulation, Journal of Taibah University for Science, Quality Technology & Quantitative Management. |
| Elsevier | Applied Mathematical Modelling, Scientific African, Statistical Methodology, Computers & Industrial Engineering. |
| Wiley | Quality and Reliability Engineering International. |
| Sage | Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability. |
| Hindawi | Complexity, Journal of Mathematics, Mathematical Problems in Engineering. |
| Others | Austrian Journal of Statistics, Electronic Journal of Applied Statistical Analysis, Journal of Modern Applied Statistical Methods, Journal of Statistics Applications & Probability, Malaysian Journal of Science, PLOS One, Statistica, Statistics and Its Interface, Statistics, Optimization & Information Computing, Thailand Statistician. |