

Department of Mathematics & Statistics



Dr.B.K.Hooda, Professor (Statistics)

Official/Home Address:

Office: Deptt. of Mathematics & Statistics,
CCSHAU, Hisar

Home: 10B/1, New Campus, CCSHAU, Hisar

Phone/Mobile: 01662-231278 (Res.)
9315385447 (Mob.)

Academic Qualifications: B.Sc. (Kurukshetra University in 1983)
: M.Sc. (Haryana Agricultural University, Hisar in 1985)
: Ph.D. (Haryana Agricultural University, Hisar in 1989)

Professional Experience:

- i) Assistant Scientist/Professor from 7.12.1989 to 31.3.97 at UHF-Solan(HP)
- ii) Lecturer from 1.4.1997 to 9.2.1999 at GJU, Hisar
- iii) Assoc. Professor from 10.2.1999 to 9.2.2007 at CCSHAU, Hisar
- iv) Professor from 10.2.2007 onwards at CCSHAU, Hisar

Academic Interest and Research Highlights:

Engaged in teaching and research for the last 19 years. Teaching courses from many areas in statistics such as: Probability Theory and Distributions, Statistical Inference, Multivariate Analysis, Regression Analysis and General Statistical Methods. Co-authored 4 manuals which are very helpful for students preparing for university as well as competition examinations. Guided 3 M.Sc. students from Statistics and 3 from Bioinformatics. Also guided one Ph.D. student in Statistics as Co-Major. Published several research papers in journals of national and international repute and also presented many research papers in national and international conferences. My papers deal in 'estimation from censored samples, estimation in restricted parameter space, Dimension reduction in multivariate analysis, Applications of information's theory and applied time series analysis.

National/International Exposure

- i) Attended certificate course in Statistics and computing at IASRI, New Delhi
- ii) Participated in summer institute on Advances in Agricultural Statistics at IASRI and Refresher course on Design and Analysis of Agricultural Experiments held at AAREM, CCSHAU, Hisar

- iii) Availed Commonwealth Academic Staff Fellowship for six months in Leeds University, U.K.
- iv) Participated in many national and international conferences.
- v) Participated in the Ordinary Meeting of Royal Society of Statistics in London.

Awards and Honors:

- i) Received Prizes in B.Sc. for positions at College level.
- ii) Merit scholarship in M.Sc., and Ph.D.
- iii) First position in University in M.Sc.
- iv) Commonwealth Academic Staff Fellowship Award 2007, awarded by Association of Commonwealth Universities.
- v) Award of Excellence for position in training on Computer Applications conducted by NIIT and AAREM, CCSHAU, Hisar
- vi) Certificate of Honor for HAUTA.

Professional Affiliations:

Life members of the following scientific bodies:

- i) Indian Society of Information Theory and Applications, New Delhi
- ii) Indian Society of Agricultural Statistics, New Delhi
- iii) Indian Statistical Association, Pune
- iv) Indian Science Congress Association, Calcutta.
- v) Society of Statistics, Computer and Applications New Delhi

Professional/Other Responsibilities Held:

- i) Worked as course coordinator for the faculty training program conducted by the dept. in collaboration with AAREM, CCSHAU, Hisar
- ii) Remained Executive member of ISAS, New Delhi
- iv) Worked as Resource Person for many training program conducted by AAREM and other departments.

Important Publications

A) Books/Manuals

1. Hooda, B. K., Panwar, R. S. and Grover, D. (2003) *Basic statistics Manual for Under Graduate students*, Published by Department of Mathematics & Statistics CCS Haryana Agricultural University.
2. Grover, D., Hooda, B. K. and Peshin (2004) *Advance Course on Statistical Methods(edited)*. Published by Academy of Agricultural Research and Education Management CCS Haryana Agricultural University, Hisar-125004.
3. Hooda, B.K., Panwar, R.S. and Grover, D. (2006) Manual of Statistical Methods for Agriculture Students. Department of Mathematics and Statistics.
4. Hooda, B.K., Panwar, R.S. and Lajpat Rai. (2008) Manual of Statistical Methods in Bioinformatics. Published by Department of Mathematics & Statistics CCS Haryana Agricultural University.

5. Hooda, B.K., Panwar, R.S. and Lajpat Rai. (2008) Manual on Statistical Methods For Social Sciences. Published by Department of Mathematics & Statistics CCS Haryana Agricultural University.

B. Research Articles

1. Hooda, B. K., Singh, N.P. and Singh, U (1990) Estimates of the parameters of Type-II extreme value distribution from censored samples. *Communications in Statistics*. 19(8), 3093-3110.
2. Hooda, B. K., Singh, N.P. and Singh, U. (1991) Estimation of Gumbel distribution parameters of m-th Maxima from censored samples. *STATISTICA LI (3)*, 339-352.
3. Sangwan, R.S., Singh, R.K., Hooda, B.K. and Panwar, K.S. (1991) Monsoon behavior and production of pulses under dry land conditions of South-West Haryana. *Journal of Applied Hydrology IV(3-4)*, 33-37.
4. Hooda B. K., Singh, N.P. and Singh, U. (1993): On Estimation in Fre'chet distribution of m-th Maxima. *Communications in Statistics*. 22(3), 907-919.
5. Hooda, B. K. and Thakur, B.C. (1998): Probability analysis of Rainfall at Nauni Himachal Pradesh. *Indian Journal of Soil Conservation*. 26(2), 153-155.
6. Hooda, B. K. (1998) Seasonal non-seasonal ARIMA models for monthly Rainfall Data. Proceedings of *First Annual Conference of Society of Statistics, Computer and Applications*, held at CCS HAU Hisar, 87-95.
7. Hooda, B. K. and Tonk, D.S. (1998) An Assessment of Regional Development in Haryana. Proceedings of the *First Annual Conference of Society of Statistics, Computer and Applications*, held at CCS HAU Hisar, 183-193.
8. Hooda, D.S. and Hooda B.K (2001) On Measurement of Stochastic Dependence in Multivariate Data. *Indian J. Pure Appl. Math.* 32(6), 801-815.
9. Joorel J.P.S. and Hooda, B. K. (2002) On Estimation of ordered Parameters of two uniform distributions. *Aligarh. J. Stat.* 22, 101-108.
10. Hooda, B. K. and Kaushik, L.S. (2003): "Issues of Research in Agricultural Statistics". Published in the *Discussion Papers and Proceedings of Thirteenth Conference of Agricultural Research Statisticians*, 222-226.
11. Kaushik, L. S. and Hooda, B.K. (2003): "Teaching of Agricultural Statistics: Status and Challenges". Published in the *Discussion Papers and Proceedings of Thirteenth Conference of Agricultural Research Statisticians*, 179-183.
12. Malik, D. P., Kumar, S. and Hooda, B. K. (2004) An Economic Analysis of Production and Export of Onion in India. *Agricultural Marketing XLVII(1)*, 12-19.

13. Hooda, B.K. and Hooda, D.S. (2006) Dimension Reduction in Multivariate Analysis using Maximum Entropy Criterion. *Journal of Statistics and Management Systems* **9**, 175-183.
14. Hooda, B. K. (2006) Probability Analysis of Monthly Rainfall For Agricultural Planning At Hisar. *Indian J. Soil. Cons.* **34(1)**, 12-14.
15. Hooda, B.K. Singh, K.P. and Bae, S. (2007) Improved Estimators of Uniform Scale Parameters with Known Ordering. *Journal of Applied Probability and Statistics*, **2(1)**, 1-12.
16. Hooda, B.K., Mishra, K. and Singh, K.P.(2008) A Procedure for Identification of Principal Variables by Least Generalized Dependence. *Communications in Statistics (Simulation and Computation)*, **37(1)**, 167-177.
17. Suman Kumar, Hooda, B.K., Rajendra Singh and Seema Jaggi(2008) Use of Dummy Variables for Investigating Structural Stability in Fertiliser- Yield Response Models. *Indian Journal of Agricultural Sciences*, **78(2)**, 183-186.