




Faculty Details proforma for DU Web-site



Title	Dr.	First Name	Girish	Last Name	Chandra	Photograph
Designation		Associate Professor				
Department		Statistics				
Address (Campus)		Department of Statistics, University of Delhi, Delhi-110007				
		(Residence) I/161, 2 nd Floor, Phase 1, Ashok Vihar, New Delhi				
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Mobile						
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Email		gchandra@stats.du.ac.in; girish.caepht@gmail.com				
Web-Page		https://statistics.du.ac.in/-				
Education						
Subject		Institution		Year	Details	
Ph.D. (Statistics)		Kumaun University, Nainital		2009	Thesis topic: Contributions to Statistical Methods in Risk Assessment and Control of Environmental Pollution	
M.Sc. (Statistics)		Kumaun University, Nainital		2003	Thesis topic: A systematic procedure for square random lattice sampling	
B.Sc. with Statistics		Kumaun University, Nainital		2001		
Career Profile						
Organisation / Institution		Designation		Duration	Role	
University of Delhi, Delhi		Associate Professor		Sep 2023 to Present	Teaching and Research	
University of Allahabad, Prayagraj		Associate Professor		April 2022 to Sep 2023	Teaching and Research	
Indian Council of Forestry Research and Education, Dehradun-cum-FRI Deemed Univ.		Scientist		March 2010 to April 2022	Research and Teaching	
College of Agricultural Engineering and Post-Harvest Technology (Central Agricultural University), Gangtok, Sikkim.		Assistant Professor		Feb 2007 to March 2010	Teaching and Research	

Research Interests / Specialization
Sampling Methods, Probability Theory, Forestry Statistics, Applied Statistics
Teaching Experience (Subjects/Courses Taught)
Following papers were taught at UG/PG/Ph.D. level
Sampling Methods; Measure and Probability Theory; Estimation Theory; Statistical Inference; Forestry Statistics; Applied Statistics; Mathematical Statistics.
Publications (Books and Edited Books)
1. Anjoy, P., Kumar, K., Chandra, G. and Gaikwad, K. (2024). Genomic Data Analysis for Crop Improvements. Springer.
2. Latpate, R. Kshirsagar, J., Gupta, V. K. and Chandra, G. (2021). Advanced Sampling Methods. Springer.
3. Hanagal, D., Latpate, R. and Chandra, G. (Eds) (2022). Applied Statistical Methods. Springer.
4. Chandra, G., Nautiyal, R. and Chandra, H. (Eds.) (2020). Statistical Methods and Applications in Forestry and Environmental Sciences. Forum for Interdisciplinary Mathematics. Springer.
5. Nautiyal, R. and Chandra, G. (Eds.) (2020). Forest Sector Report India 2019. <i>Indian Council of Forestry Research and Education</i> , Dehradun, India.
6. Rawat, R. S., Arora, G., Rawat, V. R. S., Borah, H. R. Singson, M. Z., Chandra, G., Nautiyal, R. and Rawat, J. (2018). Estimation of Biomass and Carbon Stock of Bamboo Species through Development of Allometric Equations. <i>Indian Council of Forestry Research and Education</i> , Dehradun, India.
7. Chandra, G., Nautiyal, R., Chandra, H., Roychoudhury, N. and Mohammad, N. (Eds.) (2015): Statistics in Forestry: Methods and Applications. <i>Bonfring Publication</i> . Coimbatore.
Publications (Research Papers)
Tiwari, N., Banerjee, J., Chandra, G. and Bhari, S. (2023). Adaptive Cluster Sampling Based on Balanced Sampling Plan Excluding Contiguous Units, <i>Communications in Statistics: Theory and Methods</i> .
Dabral, A., Shankhwar, R., Martins-Ferreira, M.A.C., Pandey, S., Kant, R., Meena, R.K., Chandra, G., Ginwal, H.S., Thakur, P.K., Bhandari, M.S.; et al. (2023). Phenotypic, Geological, and Climatic Spatio-Temporal Analyses of an Exotic <i>Grevillea robusta</i> in the Northwestern Himalayas, <i>Sustainability</i> .
Ansari, T., Chandra, G., Gupta, P.K., Joshi, G. and Rana, V. (2023). Synthesis of pine needle cyanoethyl cellulose using Taguchi L25 orthogonal array, <i>Industrial Crops & Products</i> , 191(B).
Tiwari, N., Chandra, G. and Nautiyal, R. (2023). Favourable allocation models for symmetric distributions in ranked set sampling. <i>Journal of the Indian Society of Agricultural Statistics</i> .
Prabhu, P., Gowda, P. and Chandra, G. (2023). Effect of <i>Prana vidya</i> practices on cognitive abilities of adolescents: A randomized control trial. <i>Journal of Applied Conscious Study</i> , 11(1), 12-21.
Kumar, A., Kumar, J. and Chandra, G. (2022). Effect of defoliation on tree growth of <i>Populus deltoides</i> Bartr. ex Marsh in India, <i>Current Science</i> , 123(10), 1268-1273.
Bhoj, D. S. and Chandra, G. (2022). Ranked set sampling with varied order statistics for skew distribution. <i>Model Assisted Statistics and Applications</i> , 17(3), 161-166.
Prabhu, P., Gowda, P. and Chandra, G. (2022). Effect of <i>Prana vidya</i> practices on intelligence quotient and performance quotient of adolescents: A randomized control trial. <i>Journal of Applied Conscious Study</i> , 10(2), 124-133.
Pandey, S., Nautiyal, R. Kumar, P., Chandra, G. and Panwar, V. (2022). A grey relational model for soil erosion vulnerability assessment in sub watershed of lesser Himalayan region, <i>CATENA</i> , 210., 105928.

- Bisht, S.S., Mishra, K., Pandey, K.K., Chandra, G., Nayak, M. and Shashikala, S. (2022). Chromatographic and spectrophotometric analysis of heartwood extracts of four *Pterocarpus* species, *Wood Science and Technology*, 56, 459-476.
- Bisht, S. S., Kumar, D. and Chandra, G. (2021). Variation in essential oil gland density, yield and composition of aerial parts of *Eucalyptus teretecornis* Sm. and *Eucalyptus camaldulensis* Dehnh., *Journal of Essential Oil Bearing Plants*, 24(5), 998-1009.
- Nautiyal, R., Tiwari, N. and Chandra, G. (2021). Quantile estimation using near optimal unbalanced ranked set sampling. *Communications for Statistical Applications and Methods*, 28(6), 645-655.
- Nautiyal, R., Tiwari, N. and Chandra, G., Kershaw, J.A. and Shaktan, T. (2021). Alternate ranked set sampling for skewed and mound shaped symmetric distributions: Accounting for forestry and environmental research. *Mathematical and Computational Forestry and Natural Resource Sciences*, 13(2), 14-26.
- Chandra, G., Tiwari, N. and Nautiyal, R. (2021). Adaptive cluster sampling-based design for estimating Corona COVID-19 cases with random samples, *Current Science*, 120(7), 1202-1210.
- Giri, K., Chandra, G., Jayraj, RSC, Borah, R.K., Kardong, P, Borah, S. and Goswami, A.K. (2021). Regression models for estimating stem volume of *Aquilaria malaccensis* (Lamk.) in North East India. *Environmental Challenges*, 5, 1-6.
- Kumar, A., Chandra, G. and Singh, K.P. (2021). Relative infestation intensity of bamboo leaf roller, *algedonia coclesalis* on different bamboo species in Ranchi region. *Indian Forester*, 147(5), 496-499.
- Bisht, S. S., Chandra, G. and Pandey, K. K. (2021). Simple and rapid FTIR spectral data and chemometric analysis-based method for evaluation of the quality of Indian Sandalwood oils, *Journal of Essential Oil Research*, 33(4), 376-384.
- Bhoj, D. S. and Chandra, G. (2021). Ranked set sampling with lowest order statistics for Pareto distribution. *Communications in Statistics: Simulation and Computation*.
- Saha, R., Ginwal, H.S., Chandra, G. and Barthwal, S. (2021). A comparative study on grey relational analysis and C5.0 classification algorithm on adventitious rhizogenesis of *Eucalyptus*. *Trees*, 35, 43-52.
- Saha, R., Ginwal, H.S., Chandra, G. and Barthwal, S. (2020). Root distribution, orientation and root length density modelling in *Eucalyptus* and evaluation of associated water use efficiency. *New Forests*, 51, 1023-1037.
- Bisht, S.S., Chandra, G., Ravindra, M. and Kumar, R. (2020). Evaluation of chemical and physical properties of commercial sandalwood essential oils and their comparison with essential oil extracted from *Santalum album* L, *Journal of Essential Oil Bearing Plants*, 23(2), 345-355.
- Bhoj, D. S. and Chandra, G. (2019). Simple unequal allocation procedure for ranked set sampling with skew distributions, *Journal of Modern Applied Statistical Methods*, 18(2), eP2811.
- Chandra, G., Jain, A. and Kumar, S. (2020). Logit application model for valuating intangible benefits from the afforested areas, *Journal of Forestry Economics Review*, 2(1), 33-42.
- Kumar, A., Chandra, G. and Kumar, S. (2019). Estimating bark eating caterpillars *Indarbela quadrinotata* (walker) in *Populous deltoides* using ranked set sampling, *Indonesian Journal of Applied Statistics*, 3(1), 1-11.

- Saha, R., Ginwal, H.S., Chandra, G. and Barthwal, S. (2019). Integrated assessment of adventitious rizogenesis in *Eucalyptus*: Root quality index and rooting dynamics, *Journal of Forestry Research*, 31, 2145-2161.
- Bhandari, M.S., Meena, R.K., Shankhwar, R., Chandra, G. et al. (2019). Prediction Mapping Through Maxent Modeling Paves the Way for the Conservation of *Rhododendron arboreum* in Uttarakhand Himalayas. *Journal of the Indian Society of Remote Sensing*, 48, 411-422.
- Chandra, G., Tiwari, N. and Nautiyal, R. (2019). Two stage adaptive cluster sampling based on ordered statistics, *Metodoloski Zvezki (Advances in Methodology and Statistics)*, 16(1), 43-60.
- Tiwari, N., Chandra, G. and Nautiyal, R. (2019). Ranked set sampling: A review with new initiative on extreme ranked set sampling, *Statistics and Applications*, 17(1), 121-139.
- Bhandari, M.S. and Chandrag, G. National Workshop on 'recent Advances in Statistical Methods and Applications. In Forestry and Environmental Sciences 2018. *Indian Forester*, 144(12), 1232-1233.
- Uniyal, K., Chandra, G., Khan, R. U. and Singh, Y. P. (2018). Selection of potent pathogenic isolates from a population of *Alternaria alternata*, a leaf spot pathogen of poplar. *American Journal of Applied Mathematics and Statistics*, 6(6), 232-238.
- Chandra, G., Bhoj, D. S. and Pandey, R. (2018). Simple unbalanced ranked set sampling for mean estimation of response variable of developmental programs, *Journal of Modern Applied Statistical Methods*, 17(1). Article 28.
- Chandra, G., Pandey, R., Bhoj, D. S., Nautiyal, R., Ashraf, J. and Verma, M. R. (2018). Ranked set sampling approach for response estimation of developmental programs with linear impacts under successive phases, *Pakistan Journal of Statistics*, 34(2), 163-176.
- Debnath, P., Pattanaaik, S.K., Sah, D., Chandra, G. and Pandey, A.K. (2018). Effect of boron and zinc fertilization on growth and yield of cowpea (*Vigna unguiculata* Walp.) in inceptisols of Arunachal Pradesh, *Journal of the Indian Society of Soil Science*. 66(2), 229-234.
- Chandra, G. and Tiwari, N. (2017). A systematic procedure for square random lattice sampling, *Journal of Mathematics and Statistics*, 13(3), 231-239.
- Jain A., Chandra, G. and Nautiyal, R. (2017). Valuating intangible benefits from afforested areas: A case study in India, *Economía Agraria y Recursos Naturales*, 17(1), 89-100.
- Kumar, A. and Chandra, G. (2017). Insect pest infestation on *Gmelina arborea* Roxb. in different agroclimatic zones of Jharkhand, India, *Arthropods*, 6(1), 8-20.
- Chandra, G., Tiwari, N., Nautiyal, R. and Gupta, D. S. (2016). On Partial Ranked Set Sampling in parameter estimation of lognormal distribution. *International Journal of Statistical and Agricultural Sciences*, 12(2), 321-326.
- Chandra, G., Nain, NPS, Prakasham U, Khatri, P.K. and Singh, K (2015): On Seed Collection Levels in Various Types of *Shorea Robusta* Forest in Hill and Plain Agro-climatic Zones of Central India. *International Journal of Statistics and Analysis*. 5(1), 1-13.
- Debnath, P., Pattanaaik, S. K., Sah, D., Pandey, A. K., Sen, D., Chandra, G. and Ghosh, S. K. (2015). Response of boron and zinc fertilization to productivity of rice in piedmont soil of Arunachal Pradesh. *International Journal of Agriculture, Environment and Biotechnology*, 8(4), 907-914.
- Chandra, G. and Nautiyal, R. (2015). On statistical methods in forestry research. *Van Sangyan*, 2(4), 37-42.

- Chandra, G. and Nautiyal, R. (2015). An overview of adaptive cluster sampling in estimating rare species. *Van Sangyan*, 2(2), 9-16.
- Chandra, G., Tiwari, N. and Singh, S.K. (2014): A generalized approach on ranked set sampling theory for large set size. *Journal of the Indian Society of Agricultural Statistics*, 68(1), 55-65.
- Chandra, G. and Tiwari, N. (2012). Estimation of location and scale parameters of lognormal distribution using ranked set sampling. *Journal of Statistics and Applications*, 7(3-4), 139-152.
- Chandra, G., Tiwari, N. and Chandra, H. (2011). Adaptive cluster sampling based on ranked sets, *Metodoloski Zvezki*, 8(1), 39-55.
- Chandra, G., Tiwari, N. and Singh, S.K. (2011). Near optimal allocation model for skewed distributions in ranked set sampling. *International Journal of Statistics and Systems*, 6(1), 57-65.
- Tiwari, N. and Chandra, G (2011). A systematic procedure for unequal allocation for skewed Distributions in Ranked Set Sampling. *Journal of the Indian Society of Agricultural Statistics*, 65(3), 331-338.
- Debnath, P., Chandra, G. and Ghosh, S. K. (2009). Critical limit of available boron for rice under red and laterite zone of West Bengal, India. *SAARC Journal of Agriculture*, 7(1), 99-105.

Articles in the Edited Books:

- Malakar, A., Chandra, G. and Barthwal, S. (2023). Tree genome databases: a new era in the development of cyber-infrastructures for forest trees. In: *Genomic Data Analysis for Crop Improvements*, Springer.
- Uniyal, K., Chandra, G., Khan, R.U. and Singh, Y.P (2022). Grey relational analysis for the selection of potential isolates of *Alternaria Alternata* of poplar. In: *Applied Statistical Methods, Springer Proceedings in Mathematics and Statistics*, Springer Nature.
- Chauhan A.S., Chandra G., Singh Y.P. (2020). Statistics in Indian forestry: A historical perspective. In: *Statistical Methods and Applications in Forestry and Environmental Sciences*. Springer, Singapore.
- Chandra H., Chandra G. (2020). Small area estimation for total basal cover in the state of Maharashtra in India. In: *Statistical Methods and Applications in Forestry and Environmental Sciences*. Springer, Singapore.
- Nautiyal, R. and Chandra, G. (2017): Resource overview on bamboo conservation, management and utilization in India. In, *Bamboo conservation, Management and Utilization in India: A Status Report*. ICFRE Publication, Dehradun.
- Chandra, H., Sud, U. C. and Chandra, G. (2015): Importance of statistical software in survey data analysis. In: *Statistics in Forestry: Methods and Applications*. Coimbatore: *Bonfring Publication*.
- Chandra, H. and Chandra, G. (2015): An Overview of small area estimation techniques. In: *Statistics in Forestry: Methods and Applications*. Coimbatore: *Bonfring Publication*.
- Chandra, G., Tiwari, N. and Nautiyal, R. (2015): Near optimal allocation models for symmetric distributions in ranked set sampling. In: *Statistics in Forestry: Methods and Applications*. Coimbatore: *Bonfring Publication*.
- Kulkarni, N., Roychoudhary, N. and Chandra, G. (2015): Probit analysis for toxicological experiments against forest insect pests. In: *Statistics in Forestry: Methods and Applications*. Coimbatore: *Bonfring Publication*.

- Chandra, G. and Tiwari, N. (2012). Ranked set sampling theory for large set size with probability proportional to rank size matrix. In: *Interface between Statistics, Mathematics and Allied Sciences*, Excel India Publishers, New Delhi.
- Chandra, G., Tiwari, N. and Nautiyal, R. (2016): Assessment of non-timber forest products in India. In: *Statistical and Mathematical Sciences and Their Application*, New Delhi, Narosa Publication.
- Tiwari, N., Pandey, G. S. and Chandra, G. (2015): Estimation of location and scale parameters of normal distribution using ranked set sampling. In: *Statistics in Forestry: Methods and Applications*. Coimbatore: Bonfring Publication.
- Verma, M. R., Pandey, R., Chandra, G. and Agnihotri, R.K. (2017). Sample allocation procedure for assessment of impact of development programme under joint effect of linear and exponential phases, In *Proceedings of the Conference on "Recent Statistical Computing Techniques and their Applications" in Special Issue of Engineering and Scientific International Journal*, 10-13.

Awards/ Grants/Fellowships received

SN	Fellowship/Award Name	Name of the Academic body/Association
1.	International Cochran-Hansen Award	International Statistical Institute, the Netherlands <i>Given during World Statistics Congress 2017 at Morocco</i>
2.	National ICFRE Outstanding Research Award	Ministry of Environment, Forest and Climate Change, GoI <i>Given during World Forestry Day 2019</i>
3.	Young Scientist Award in Math., Stat. & Comp. Sc.	UCOST, Government of Uttarakhand (2016)
4.	Adjunct Faculty in Sampling	<i>Uttar Banga Krishi Vishwavidhyalaya, CoochBehar</i>
5.	Travel Grant Assistance (Morocco)	World Bank
6.	Travel Grant Assistance (Slovenia)	Ministry of Statistics and Program Implementation, GOI.
7.	National Eligibility Test (NET)	Qualified in Mathematical Sciences by CSIR

Research and Consultancy Projects

S. No.	Title (as Principal Investigator (PI)/Co-PI/Nodal Officer)	Funding Agency	Period (in months) (Status)	Grant (in Rs. lakh)
1.	All Indian Coordinated Project "Assessment of demand and supply of timber, fuel-wood and fodder in India" (As National Project Co-ordinator and PI)	MoEFCC, GOI	36 (Till 11.04.2022)	143.75
2.	All Indian Coordinated Project "Valuation of forests for GDP, Green GDP and Payment of eco-system goods and services" (As PI)	MoEFCC, GOI	48 (Till 11.04.2022)	315.60
3.	Development of Regression Models, Volume, Biomass and Carbon Tables for <i>Quercus serrata</i> and <i>Pinus khasiana</i> in Manipur State (As co-PI)	Manipur State Forest Department, Imphal	6 (Completed)	3.85

4.	Non-detrimental finding study of <i>Boswellia</i> spp. in India (As Co-PI)	Wild life division, MoEFCC, GOI	6 months (Completed)	18.00
5.	Non-detrimental finding study of <i>Pterocarpus marsupium</i> in India (As Co-PI)	Wild life division, MoEFCC, GOI	6 months (Completed)	18.00
6.	Forestry Sector Report-2018 (As Co-PI)	MoEFCC, GOI	9 (Completed)	34.00
7.	Standardization of Plantation Techniques in Madhya Pradesh (As Co-PI)	State Forest Department of Madhya Pradesh, India	60 (Completed, involved till Sep 2013)	22.22
8.	Reassignment of forest types of India (As Team leader for Maharashtra States)	ICFRE, Dehradun	24 (Completed)	40.00
9.	A Sample Survey for Pulp, Paper and plyboard (including hardboard) of India (As PI for central India)	International Tropical Timber Organization, Japan	6 (Completed)	0.73
10.	Preparation and Publication of Forestry Statistics India 2011 (As PI for central India)	ICFRE, Dehradun	22 (Completed)	6.00
11.	Identification of Extents of Forest Lands and in the forest Fringe Villages (As Team leader for Maharashtra and Chhattisgarh States)	Ministry of Agriculture, GOI	42 (Completed)	629.00
12.	Forestry Sector Report-2010 (As PI for central India)	Ministry of Environment and Forest, GOI	24 (Completed)	32.00
13.	Assessment of Green Cover, its Tangible and Intangible Benefits and Tree Cover Management Plan for NCPP Dadri Project (As Co-PI)	National Thermal Power Corporation Limited	36 (Completed)	12.49
14.	Assessment of Green Cover and its Tangible and Intangible Benefits and Tree Cover Management Plan for KSTPC Project (As Co-PI)	National Thermal Power Corporation Ltd	36 (Completed)	20.00

Conference Presentations:

SN	Title of the paper	Conference Name	Organized by	Level
1.	Statistical Methods in Environmental Studies using R	Statistical Methods in Environmental Studies using R software	G. B. Pant National Institute of Himalayan Environment, Sikkim (March 01-03, 2023)	National
2.	Multi-Criteria Decision Making Approaches: Some Case Studies	Integrated Approaches of Stochastic Modelling and Data Science for Sustainable Development	Indian Society of Probability and Statistics (Sep 7-11, 2022)	International
3.	Weighted Ranked Set Sampling for Skew Distributions	Statistics and Machine Learning for Big Data Analytics at SKAUST Srinagar, J&K	Indian Society of Agricultural Statistics (Nov 14-16, 2022)	National
4.	Pharmaceutical Data Analysis	Recent Advancements in Pharmaceutical Sciences: Research to Revenue	United Institute of Pharmacy, Naini Prayagraj (May 16-20, 2022)	National
5.	Ranked set sampling with lowest order statistics (RSSL) for skew distribution	Statistical Techniques in Business and Industry	CUSAT, Cochi 28th - 30th Dec 2020	International
6.	Unbalanced ranked set sampling for Skewed Distribution	Importance of Statistics in Global Emerging Scenario	Pune University and Society of Statistics and Computer Application	National
7.	Simple unbalanced ranked set sampling for mean estimation of response variable of developmental programs	Statistics for Better Future	Rajasthan Statistical Association	National
8.	Two stage adaptive cluster sampling based on ordered statistics	World Statistics Congress 2017	International Statistical Institute and its Associations (Marrakech, Morocco)	International
9.	Ranked set sampling approach for estimating response of developmental programs with linear impacts under	World Statistics Congress 2017	International Statistical Institute and its Associations	International

	successive phases		(Marrakech, Morocco)	
10.	Adaptive Cluster Sampling Based on Ranked Sets	Applied Statistics-2010	Statistical Society of Slovenia (Ribno, Slovenia)	International
11.	Near optimal allocation model for skewed distributions in ranked set sampling	Statistics, Probability, Operation Research, Computer Science and Allied Areas (Vishakhapatannam, Andhra Pradesh)	Andhra University (Vishakhapatannam, India)	International
12.	On ranked set sampling allocation models for symmetric distributions	International Workshop on Environmental Statistics	Statistical and Mathematical Science Institute and Indian Statistical Institute, Kolkata, India (Kolkata, India)	International
13.	Simple unbalanced ranked set sampling for mean estimation of response variable of developmental programs	Statistics for Humanities and Social Sciences: Statistics for A Better Future	Rajasthan Statistical Association at Jaipur (Sep 04-05, 2018)	National
14.	Willingness-to-Pay estimation for selected intangible socioeconomics due to Plantations in and around a power Plant of India	Annual National Conference of Society of Statistics, Computer and Application 2017	Society of Statistics and Computer Applications and SKAUST, Jammu, India	National
15.	Two stage adaptive cluster sampling based on ordered statistics	Uttarakhand State Science and Technology Congress	Uttarakhand Council of Science and Technology, Dehradun, India	State
16.	Estimation of location and scale parameters of lognormal distribution using ranked set sampling	Indian Forestry Congress	Indian Council of Forestry Research and Education, Dehradun (New Delhi, India)	National
17.	Assessment of non-timber forest products in India: an adaptive cluster sampling approach	Recent advances of Statistical and Mathematical Sciences and Their Applications	Kumaun University, Nainital, India	National
18.	On adaptive cluster sampling in forestry research: an overview	Role of Statistics, Computer and	Society of Statistics and Computer	National

	Application Women Empowerment	in	Application (Mahila Vishwavidhyala, Sonapat, India)
19.	Ranked Set Sampling Theory for Large Set Size with Probability Proportional to Rank Size Matrix	Mathematics, Statistics and Computer Science	Kumaun University National Nainital, India (Almora, India)
20.	On sampling methodology for assessing important non timber forest products of India	Uttarakhand State Science and Technology Congress	Uttarakhand Council State of Science and Technology, Dehradun, India
<u>Workshops attended:</u>			
2019: <i>International Conference on Agricultural Statistics</i> (November 18-22, 2019): at Indian Agricultural Research Institute, Pusa, New Delhi funded by EUROSTAT			
2017: Training on Practical Bayes for Beginners (July 13-14, 2017): at Medicine University, Marrakech, Morocco, organized by International Statistical Institute.			
2017: Workshop on ISI-Young Statistician Workshop (July 16, 2017): at Palais des Congres, Marrakech, Morocco, organized by International Statistical Institute			
2014: Training on Data Analysis for Tree Volume, Biomass and Carbon Stock Assessment (Nov 10-13, 2014): at Kerala Forest Research Institute, Peechi, Kerala, organized by Food and Agricultural Organization and Kerala Forest Research Institute.			
2014: Training on Climate Change and Carbon Mitigation (Feb 22-26, 2017): at Indian Council of Forestry Research and Education, Dehraun, India			
2012: Annual workshop on National Knowledge Network (Oct 31-Nov 02, 2012): at Indian Institute of Technology, Bombay.			
2013: Annual Workshop on IUIM Meet (March 11-12, 2013): at Indian Institute of Remote Sensing, Dehradun.			
2011: National Workshop on Non Timber Forest Products Marketing: Issues and Strategies (Feb 19, 2011): at TFRI, Jabalpur.			
2011: Workshop-cum-Training Programme on Environment and Afforestation (March 22-24, 2011): at TFRI, Jabalpur.			
2012: Technical workshop on National Knowledge Network (March 21, 2012): at RCVP Noronha's Academy of Administration, Bhopal.			
2011: Induction Training for Scientists and Research Officers of ICFRE, (March 21-May 27, 2011): at FRI Deemed University, Dehradun			
2009: Recent Advances in Sampling Methodology , (Feb 10-March 02, 2009): at Indian Agricultural Statistics Research Institute, Pusa, New Delhi.			
Conferences/ Session of conferences Organized			
2019: Organized an Invited Paper Session "Significance of Ranked Set and Adaptive Cluster Sampling in Forestry and Environmental Research" for 62nd WSC 2019, Kuala Lumpur, Malaysia (Session Organizer)			
2018: Organized a national Workshop "Recent Advances in Statistical Methods and Application in Forestry and Environmental Sciences" at Indian Council of Forestry Research and Education,			

Dehradun, India (Organizing Secretary).
2014: Organized a session Forestry and Environmental Statistics during the national conference “Recent Advances in Statistical and Mathematical Sciences and their Applications” organized by Department of Statistics, Kumaun University, Nainital (Chairman and Session Organizer)
2013: Organized a national seminar “Recent Advances in Applied Statistics and its Application in Forestry” at Tropical Forest Research Institute, Jabalpur, Madhya Pradesh, India (Organizing Secretary).
Professional Societies Memberships
Regular member of International Association of Survey Statisticians Regular member of International Statistical Institute Life member of Indian Society of Agricultural Statistics Life member of International Indian Statistical Association Life member of Computational and Methodological Statistics Life member of Indian Society for Probability and Statistics
Other Details
Supervision (Supervisor/Co-supervisor) of Completed/Ongoing Ph.D. Students <ol style="list-style-type: none"> Contributions of Ranked Set Sampling and Adaptive Cluster Sampling in Forestry Research, Kumaun University (awarded) Clonal Variations in rooting dynamics and root architecture of <i>Eucalyptus tereticornis</i> and <i>Eucalyptus Camaldulensis</i>, FRI (Deemed) University (awarded) Analysis of Genetic Diversity and Efficacy of Biocontrol Agents on Growth Parameters in <i>Grevillea robusta</i> A. Cunn., FRI (Deemed) University (awarded) Effect of Shifting Cultivation on Forest Cover Change and Soil Characteristics of Serchhip District, Mizoram, FRI (Deemed) University (submitted) Valuation of Selected Forest Ecosystem in High Sensitive Zones of Uttarakhand, FRI (Deemed) University (submitted) Small Domain Estimation Approach for Important Forestry Attributes in India based on Survey and SAR Data, FRI (Deemed) University (ongoing) Effect of Prāṇa Vidyā on Cognitive Abilities; Āgya Cakra, of Adolescents, Patanjali University (awarded) Development of Unique Sex Associated DNA Markers for Medicinally Important Himalayan Species <i>Myrica esculenta</i>, FRI (Deemed) University (ongoing) The organic carbon distribution in the soil plant system in Keibul Lamjao National Park, Manipur, FRI (Deemed) University (ongoing)
Mentoring Women Scientist Under Department of Science and Technology Supervised two women scientists under WOS B scheme of DST at ICFRE, Dehradun (total project amount Rs. 36 lakh)

Administrative Responsibilities**Responsibility**

Resident Director, Van Vigyan Bhawan, New Delhi (Apr 2017 to Jan 2018)

Organization

ICFRE, Dehradun, India

Course Coordinator, Ph.D. Students (2016-2017)

FRI (Deemed) University, Dehradun, India

Head, Department of Statistics, Computer and IT (Mar 2012 to Sep 2013)

Tropical Forest Research Institute, Jabalpur

Member of Board of Studies/Academic Committee**Committee**

Member, Academic Council

Organization

FRI (Deemed) University, Dehradun

Expert Member, Research Advisory Group meeting committee

Tropical Forest Research Institute, Jabalpur

Expert Member, National Research Policy Committee, ICFRE

ICFRE, Dehradun

Expert Member, Research Advisory Committee

FRI (Deemed) University, Dehradun



(Signature of Faculty Member)