

Dr. Ashu Chandel

Professor & Head, Department of Basic Sciences



Specialization: Statistical Analysis of Agroecological Impact of Natural Farming, Sampling, Design and Modelling

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Ongoing Research Projects:

Investigator and Co-investigator in several significant National and International projects:

- National Mission on Natural farming funded by IIFSR (Indian Institute of Farming Systems Research)
- Government of India under RKVY-RAFTAAR.
- Indian Council of Agricultural Research (NAHEP-ICAR).
- Agroecological crop protection Towards International Co- innovation Dynamics and Evidence of Sustainability (ACROPICS) funded by European Research Executive Agency (REA)
- Incubation centre for facilitating school to work transition in agriculture sector funded by State project director, SAMAGRA SHIKSHA Shimla Govt. of HP
- Coordinator, Census data work station (CDWS) appointed by Director cum chief cum Principal Census Officer, Directorate of Census Operation H.P. under the office of Registrar General and Census Commissioner of India, Ministry of Home Affairs, Govt. of India

Important Research Publications:

- Gupta V, Gupta R, **Chandel A** et al. Predictive Modeling of Sweet Cherry (*Prunus avium* L.) Cultivation Area and Production in Himachal Pradesh. *Applied Fruit Science* 68, 97 (2026). <https://doi.org/10.1007/s10341-026-01805-4>.
- Divyanshu, Vashishat R, Verma S., Chandel RS, Sharma S, Verma S, Bharat N, Thakur K, Dev I, Chauhan S, Sharma P, Kishore K, **Chandel A**, & Sharma P. 2025. Transitioning apple farming towards sustainability: evidence from Himachal Pradesh, India. *Environmental Research Communications*. 7. 081009. 10.1088/2515-7620/adf9e0.
- Sharma S, Gupta RK, **Chandel A**, Rana VS, Sharma S, Sankhyan N, and

- Sharma U. 2025. Assessment of factors influencing farmer's choices of marketing channels for Kiwifruit (*Actindia deliciosa A.Chev.*); Insights from the Indian Himalayan region. *Environment Development and Sustainability*. <https://doi.org/10.1007/s10668-025-06886-x>. (Naas: 10.20)
- Shankar VS, **Chandel A**, Gupta RK, Sharma S, Chand H, Aravinthkumar A and Ananthakrishnan S. 2024. Comparative study on key time series models for exploring the Price volatility in Potato prices. Research Square.
 - Shankar SV, **Chandel A**, Gupta RK, Sharma S, Chand H, Kumar R, Mishra N, Ananthakrishnan S, Arvinthkumar A, Kumaraperumal R, and Gowsar SRN. 2023. Exploring the dynamics of arrivals and prices volatility in onion (*Allium cepa*) using advanced time series techniques. *Frontiers in Sustainable food systems* 7 (1208898)
 - Sharma S, Mahajan PK, Gupta RK, **Chandel A**, Sharma S, Sankhyan N, Sharma U, Sharma S, Almutairi KF, Quezada GDA, AbdAllah EF. 2024. Allometric models for Volume estimation of Red Cedar (*Toona Ciliata* M Roem.) in the Northwestern Himalayas of India. *Applied ecology and environmental Research*. DOI: [10.15666/aeer/2202_15771590](https://doi.org/10.15666/aeer/2202_15771590)
 - Kumar P, Saini S, Chandel RS, Thakur KS, Verma SC, **Chandel A**, Singh U, Bharat NK, Bishist R, Sharma S and Sharma R. 2023. Natural farming towards crop and economic resilience. *Microbiology (Microbiologija) Serbian Society of Microbiology*. **44**(2):01-20
 - Kumar R, **Chandel A**, Shankar SV, Chandel RS, Gupta RK, Thakur NS, Verma SC, Sharma S, Sharma A, Thakur V, Yadav AK, Chauhan VR and Jaswal R. 2023. Outcomes of natural farming in Shimla district of Himachal Pradesh: A case study. *Scientist*. **4**(4):316-331
 - Kumar P, Gupta RK, Dutt B, **Chandel A**, Sharma S and Nand S. 2024. Multivariate analysis on Resin Production from *Pinus Roxburghii*. Sargent: A case Study of Himachal Pradesh. *Journal of Tropical Forest Sciences*. **36**(2): 139-141.
 - Divyanshu, Sharma S, Chandel RS, Vashishat R, Verma SC, Verma s, Bharat N, Thakur KS, Dev I, Chauhan S, **Chandel A**, Kishore K and Kumar A. 2025. Evidence of transitioning apple farming to an agro-ecological model in Himachal Pradesh. *Frontiers in Nutrition*. **12**: 1611137. Doi: [10.3389/fnut.20251611137](https://doi.org/10.3389/fnut.20251611137)

- Laishram C, Vashishat RK, Sharma S, Rajkumari B, Mishra N, Barwal P, Vaidya MK, Sharma R, Chandel RS, **Chandel A**, Gupta RK and Neha. 2022. Impact of Natural Farming Cropping System on Rural Households-Evidence from Solan District of Himachal Pradesh, India. *Frontiers in Sustainable food systems* **6**(878015)
- Sharma V, **Chandel A**, Gupta RK *et al.* 2025. Statistical Insights into Almond and Walnut Cultivation Trends in Himachal Pradesh. *Applied Fruit Science* **67**, 344 . <https://doi.org/10.1007/s10341-025-01592-4>

Books and Manuals

- Chandel A, Verma PK, Thakur K, and Devi M. 2026. Innovation in Agriculture. *STEMpedia* under Samagra Shiksha (NSQF Level 2 Class X).
- Gupta RK, Chandel Ashu, Geeta Verma and Neha Mishra. 2024. Statistical Procedures for Agricultural Research Workers. *Kalyani Publishers*. P: 459
- Gupta RK, Mahajan PK and Chandel A. 2016. A Practical Manual on *Elementary Statistics and Computer Applications*. P: 136
- Gupta RK, Mahajan PK, Chandel A and Bharti. 2017. Practical Manual on General Statistical Methods and Research Methodology. P:
- Gupta R K, Mahajan PK, Ashu Chandel and Bharti. 2018. A Handbook on Experimental Designs. P:
- Sharma Anju and Mahajan PK. 2022. A Textbook of Mathematics. P: 250.
- Gupta RK, Chandel A and Mishra N. 2023. *Practical Manual on Statistical Methods*. P: 240.
- Chandel A, Gupta RK, Sharma A, Verma G, Shankar VS, Mishra N. 2023. Training Programme on Soft Skills for Statistical Analysis. P: 100.
- Gupta RK, Chandel A, Sharma A, Verma G, Kaur S, Sharma S. and Chittora V. 2023. Advances in statistical techniques for efficient agricultural experimentation. P: 203.
- Gupta RK, Chandel A, Verma G, Sharma S, Kaur S. and Kumar R. 2024. Skill enhancement of statistical methods and software packages-I. P: 200
- Chandel A, Gupta RK, Verma RK, Chittora V, Kumar R, Thakur V and Sharma V. **2024**. Skill Enhancement of Statistical Methods and Software Packages-II. P:210.

- Chandel A, Gupta RK, Verma G, Sharma S, Kaur S, and Kumar R. **2024**. Skill enhancement of statistical methods and software packages-III. P:219.
- Gupta RK, Chandel A, Geeta Verma, Vishani Thakur and Varnika Sharma. **2024**. Skill enhancement of statistical methods and software packages-IV. P:219.
- Gupta RK, Chandel A, Verma G, Agnihotri D, Kumar R, Kaur S, Thakur V and Sharma V. **2024**. Skill enhancement of statistical methods and software packages-V. P:219.

Awards and Recognition

- Best Oral Presentation Award in International Conference on Climate Resilient Agriculture for Sustainable Development: Innovations and Solutions, Banaras Hindu University, Feb 5-7, 2026 on **'Integrating Statistical and Machine Learning Methods for Improved Crop Forecasting under Climate Variability.'**
- SP Dhall 'All India Distinguished Publication Award in Statistics -2017' awarded by Society for Advancement of Human and Nature (SADHNA)
- Best Oral presentation award for presentation entitled **'Success Story of Natural Farming in Himachal Pradesh'** by Ashu Chandel in **International Conference on Enabling Sustainable Food System through Natural Farming (ESFS-NF)** w.e.f. Sept 13-14, 2024 at Dr YSP UHF, Nauni, Solan. (awarded by Indian Ecological Society and Dr. YSP UHF Nauni).
- Best Oral presentation award for presentation entitled **'Emerging Footprints of Natural Farming: Sustained Increase in Himalayan Farmers' Income'** by Ashu Chandel in **National Conference on Indigenous Knowledge System and Practices for Sustainable Future: A Roadmap to Viksit Bharat-2047** w.e.f. Feb. 13-14, 2025 at College of Horticulture and Forestry, Thunag, Mandi (HP).