

Dr. Ashu Chandel

Professor & Head, Department of Basic Sciences

Specialization: Natural Farming, Sampling, Design and Modelling

Contact: +91 1792-252282 | 📞 +91 9418578866, +91

7018868682

Email: ashubsc@ypsuniversity.ac.in | achandelhp@gmail.com

**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

Important Research Publications:

- 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

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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): 139141.
- 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
- Laishram,C;Vashishat,RK;Sharma,S;Rajkumari,B;Mishra,N;Barwal,P;Vaidya, MK;Sharma,R; Chandel,RS; Chandel,A; Gupta,RK and Neha2022.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, R.K. *et al.* Statistical Insights into Almond and Walnut Cultivation Trends in Himachal Pradesh. *Applied Fruit Science* **67**, 344 (2025). <https://doi.org/10.1007/s10341-025-01592-4>
- TV, Vinay; Gupta, RK; Swain DK; Bohidar,DK; Sahoo,B; Sathapathy, B; Chandel, A; Devi,S; Bansal, S; Rattan, A; Sahoo,D and Sahoo,K 2022.Apple price forecasting using different time series models for Solan market, HP, India. Agricultural Mechanization in Asia, Africa and Latin America **53** (08): 92839290

Books and Manuals

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- RK Gupta, Ashu Chandel, 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 P K, 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.
- Ashu Chandel, RK Gupta, Anju Sharma, Geeta Verma, S. Vishnu Shankar, Neha Mishra. **2023**. Training Programme on Soft Skills for Statistical Analysis. P: 100.
- RK Gupta, Ashu Chandel, Anju Sharma, Geeta Verma, Sukhdeep, Shilpa Sharma and Vaibhav Chittora. **2023**. Advances in statistical techniques for efficient agricultural experimentation. P: 203.
- RK Gupta, Ashu Chandel, Geeta Verma, Shilpa Sharma, Sukhdeep Kaur and Rakesh Kumar. **2024**. Skill enhancement of statistical methods and software packages-I. P: 200
- Ashu Chandel, RK Gupta, Geeta Verma, Vaibhav Chittora, Rakesh Kumar, Vishani Thakur and Varnika Sharma. **2024**. Skill Enhancement of Statistical Methods and Software Packages-II. P:210.
- Ashu Chandel, RK Gupta, Geeta Verma Shilpa Sharma, Sukhdeep Kaur and Rakesh Kumar. **2024**. Skill enhancement of statistical methods and software packages-III. P:219.
- RK Gupta, Ashu Chandel, Geeta Verma, Vishani Thakur and Varnika Sharma. **2024**. Skill enhancement of statistical methods and software packages-IV. P:219.
- RK Gupta, Ashu Chandel, Geeta Verma, Deepak Agnihotri, Rakesh Kumar, Sukhdeep Kaur, Vishani Thakur and Varnika Sharma. **2024**. Skill enhancement of statistical methods and software packages-V. P:219.

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Awards and Recognition

- 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).