

Research & Publications

Department Projects

1. Comparative analysis of Vitamin-C concentration in commercial and fresh fruit juices. In collaboration with the Department of Food and Nutrition. **Supervisors** - Dr Anjali Sherawat, Dr Swati Raman and Dr Rupa Upadhyay
2. To study the physicochemical properties of different brands of honey. **Supervisors**- Dr Anjali Sherawat, Dr Swati Raman and Dr Rupa Upadhyay
3. Trans Fatty acid content in diverse edible oils used for cookery in Indian Homes-A Research Study, Funding Agency: University of Delhi : **6.5 lacs. PI/Co-PI:** Dr Anjali Sherawat
4. Learning teaching process developed material for teaching of concepts at primary school level for students with disabilities. Funding Agency: University of Delhi, Grants received project-wise: 3.4 lacs, **PI/Co-PI:** Mrs. Jugta Singh
5. Genetically modified crops and Food safety-Women's Perspective, in collaboration with Monsanto India Ltd. **Project Coordinators** - **Dr. Renuka Gupta, Dr. Raj Kapoor.**

Department Publications

Books

1. Gupta R (2019) Science of Adolescence. Goya Publishing. ISBN: 9789388951647
2. Upadhyay R (2017) Elements of Plant Sciences. Elite Publication ISBN-10 : 8188901687
3. Ram H H, Upadhyay R, Dubey R K and Mandal B. (2017) Vegetable Seed Production Principles & Practices. ISBN: 9789327282641
4. Upadhyay R, Pandey R, Raina N (2017). Botany- A Practical Manual. Elite Publication. ISBN: 978-81-88901-69-2
5. Gupta R (2015) Fundamentals of Zoology: Theory and Practice. Elite Publication House, Delhi. ISBN: 818890161X
6. Gupta R (2015) (Hindi Edition), Household pest animal and their control. National Book Trust. ISBN 978-81-237-6645-4
7. Gupta R (2015) Fundamentals of Zoology. Elite Publishing House.
8. Kochar, Shubhanku and Upadhyay, Rupa (2014) eds: New Women- Speaking Women. APH Publishing Corporation, Darya Ganj, New Delhi.

Research Papers

1. Tomar, D. and Upadhyay, R. (2020). Impact of polluted Yamuna water on the agricultural practices performed by the farming community (Delhi). *International Journal of Scientific and Engineering Research*. 11 (12): 1105- 1110.
2. Mahendra Kumar Meena, Durgesh Kumar, Abhilash Jayaraj, Ajay Kumar, Kamlesh Kumari, L. M. Katata-Seru, Indra Bahadur, Vinod Kumar, Anjali Sherawat & Prashant Singh. (2020) Designed thiazolidines: an arsenal for the inhibition of nsP3 of CHIKV using molecular docking and MD simulations. *Journal of Biomolecular Structure and dynamics*. <https://doi.org/10.1080/07391102.2020.1832918>
3. Tomar, D., & Upadhyay, R. (2018). Heavy metals in Yamuna river: A Review. *International*.

4. Dwevedi, R., Krishna, V., & Kumar, A. (2018). Environment and big data: role in smart cities of India. *Resources*, 7(4), 64.
5. Dwevedi, R., Krishna, V., Singh, S. K., & Kumar, A. (2018). A village heronry of Black-headed Ibis *Threskiornis melanocephalus* in Haryana: Threats and conservation needs. *Advances in BioResearch*, 9(2).
6. Raman S, Ganaie M, Husain M and Zulfequar M (2017). Optical properties of solution phase deposited (As₂S₃)_{100-x}Gex chalcogenide thin Films. Institute of Physics conference proceedings 1832, 070013. ISBN: 9780735415003
7. Vinoy Krishna, Ritu Pandey, Rajneesh Dwevedi, Nancy Raina, Swati Raman, Anjali Sherawat, Renuka Gupta, Rupa Upadhyay, Scientific perspective of Indian cultural practices. (2017) *International Journal of Advanced Education and Research*, Volume 2; Issue 3; Page No. 151-155, ISSN: 2455-5746
8. Krishna V, Upadhyay R, Pandey R, and Dwevedi R (2017). Integrated Pest Management: A Brief Review. *Int. J. Biology Research* 2(2): 70-74.
9. Krishna V, Kumar A, Pandey R, Singh SK and Dwevedi R (2017). The evolution of ecological sensitive zones in India: a case study of Western Ghats. *Int. J. Fauna and Biological Studies* 4(3): 20-25.
10. Kumar S, Dwevedi R and Krishna V (2017). Aerosol impact on climate, air quality and health. *Int. J. Adv. Science and Research* 2 (3): 57-61.
11. Nishant, N. and Upadhyay, R. (2016). Interventions in handling of pesticides in agriculture: A Review. *Journal of Agriculture and Environmental Sciences*. 5 (1): 113-133.
12. Nishant, N. and Upadhyay, R. (2016). Presence of pesticide residue in vegetable crops: A review. *Agricultural Reviews*, 37 (3): 173-185.
13. Dwevedi R, Kumar A and Mylswamy M (2015) A monospecific colony of Cattle Egret in the agricultural landscape of Central Uttar Pradesh, India. *Indian BIRDS* 10 (6): 149-150.
14. Y S C Khuman , Nancy Raina and K S Rao.(2015) Fuelwood assessment at micro watershed level, Garhwal Himalaya, India; *Chinese Journal of Population, Resources and Environment*. Vol. 13, Iss. 2, 177-186. 2015. ISSN 1004-2857 (Print), 2325-4262 (Online)
15. T. Shimrah, Nancy Raina, J. Deka, K. S. Rao, K. G. Saxena.(2015) Landuse pattern and change analysis in protected mountain area- A case study of Dihang-Dibang Biosphere Reserve in Arunachal Pradesh, North east India. *The Botanica*. Volume 64 & 65, 91-105 2015. ISSN 0045-2629.
16. Prince, Swati Raman, Prabhat K. Dwivedi, M. Husain and M. Zulfequar. (2014) Solution Based approach for the devices in chalcogenide glasses. 59th DAE Solid State Symposium, VIT University, Vellore, December 16th–December 20th 2014, ISBN: 9780735413108.
17. Goomer, S., Upadhyay, R., Das, A and Singh, S. (2014). Levels of pesticide residue in cabbage. *Hortflora Research Spectrum*. 3(1): 88- 90.
18. Y S C Khuman , Nancy Raina and K S Rao. (2014) Fuelwood Assessment at micro watershed level in North East Himalaya– a case study in the state of Manipur, India" *Chinese Journal of Population Resources and Environment*. Volume 12, Issue 2, 2014. ISSN 1004-2857 (Print), 2325-4262 (Online)
19. Nancy Raina, K. S. Rao, S. Sreelesh (2014) Comparative Analysis of Predictive Distribution Modeling of *Daphne papyracea* in Dabka watershed Nainital District, Uttarakhand. *Journal of Environment and Earth Science*. ISSN 2224-3216 (Paper) ISSN 2225-0948 (Online). Vol.4, No.17, 2014

20. Dwevedi R, Singh S K and Krishna V. (2014) Heronries of Mathura District, western Uttar Pradesh, India. *Indian BIRDS* 9 (4): 93–95.
21. Singh S K, Dwevedi R, Deopa P and Krishna V. (2014) A gradual advancement of the extraction and cleanup techniques for residue analysis of pesticides in food matrices and liquid products: a review. *IOSR J Env. Sc. Toxi. Food Tech.* 8(1): 113-118.
22. Swati Raman and M.Husain. (2013) Chalcogenide glass optical waveguides for Optical Communication. *Advanced Materials Research* Vol. 679 (2013) pp 41-45.
23. Dwevedi, R., & Urfi, A. J. (2011). Discovery of a large heronry at Chhata, near Mathura, in western Uttar Pradesh. *Journal of the Bombay Natural History Society (JBNHS)*, 108(3), 231-232.
24. Nishant, N. and Upadhyay, R. (2011). A study on awareness regarding rainwater harvesting in different organizations in Delhi. *The Allahabad Farmer Journal*. LXVI (2): 33-42.
25. Upadhyay, R.; Bhatia, G.L. and Ram, H. H. (2001). Genotype environment interaction and stability analysis in tomato. *Prog. Hort.* 33(2): 190-193.
26. Upadhyay, R.; Ram, H. H. and Singh, D.K. (1998). Cultivar Identification through seed protein electrophoresis in bottlegourd. *Veg. Sci.* 25: 11-13.

Book Chapters

1. A. Tomar, D. and Upadhyay, R. (2019). Water conservation practices in Agriculture: A review. 3rd International Conference on Global Initiatives in Agriculture and Applied Sciences for Ecofriendly Environment. Agricultural Technology Development Society, Ghaziabad, India and Tribhuvan University, Kathmandu, Nepal, 16- 18 June. 66, ISBN 978- 3- 96492- 103- 1.
2. Upadhyay R, Dwevedi R, Krishna V, and Pandey R, (2018) Management practices to improve productivity and quality in cucurbitaceous crops in Introduction to challenges and strategies to improve crop productivity in a changing environment. Enriched Publications Pvt. Ltd, New Delhi, ISBN No. 978-81-934634-9-9.
3. Upadhyay R (2013) Post harvest management of food crops. In B. Prasad and S. Kumar (eds) *Reshaping Technology for Agricultural Development*. SS Publishing House, New Delhi. pp.249- 269. ISBN: 978-93-81226-50-6.
4. Upadhyay R (2006) Breeding potential of indigenous lines of bottlegourd . In *Cucurbits breeding and production technology*. Pub. GBPUA&T, Pantnagar. Pp.233-236.
5. Upadhyay R (2004) Characterization of the evaluation environments and the performance of the genotypes of tomato. *Scientific Hort.* 9:85-91.
6. Upadhyay R (1998) Evaluation of Indigenous Germplasm of Cucurbits at Pantnagar. In *Role of Indigenous Germplasm in Improvement of Horticultural Crops*. GBPU&T, Pantnagar. ISBN: 81-211-0393-2.

Thesis/Dissertation

Research students are guided in collaboration with other departments of the college

MSc Dissertation

S.No	Year	Title of dissertation	Name of Student	Name of Supervisor
1	2016	Effectiveness of Safe drinking water and utilisation of discarded water from Reverse Osmosis system	Deepika Prasad	Dr Renuka Gupta

2	2015	Pilot study on Adolescent health education.	Devyani Lingwal	Dr Renuka Gupta
3	2015	Carbon footprints of cremation.	Priyanka Nimesh	Dr Renuka Gupta
4	2015	Impact of polluted Yamuna water on agriculture practices performed by the farming community in Delhi.	Deepa Sharma	Dr Rupa Upadhyay
5	2015	Participation of Women in Agriculture: A study in Pilibhit District	Dixita	Dr Rupa Upadhyay

Students submitted Ph D

S.No	Date of Registration	Title of Thesis	Name of Student	Name of Supervisor
1.	2014	Use of pesticides in vegetable farming in district Ghaziabad: Effectiveness of an intervention programme”	Ms Nity Nishant Maurya	Dr Rupa Upadhyay Prof V S Mehrotra

Students with ongoing Ph D

S.No.	Date of Registration	Title of Thesis	Name of Student	Name of Supervisor
1	2020	Empowerment of FarmWomen through Agricultural Practices: A study in Tehri Garhwal District, Uttarakhand	Ms Ankita	Dr. Rupa Upadhyay
2	2020	Involvement of Rural Farm Women in Mushroom Cultivation: A Study in two districts of Bihar	Ms Beauty	Dr. Rupa Upadhyay
3	2020	Urban Agricultural Practices in Households: A Study in Delhi NCR	Ms Sanchya	Dr. Rupa Upadhyay
4	2019	Information & Communication Technologies: Utilization pattern in Jhajjar in Karnal Haryana.	Ms Jyoti Yadav	Dr. Rupa Upadhyay
5	2019	Aspirations of Rural Youth towards agribusiness: A study in Bhagpat District of Uttar Pradesh	Ms Himani Bharat	Dr. Rupa Upadhyay

6	2019	Effectiveness of vegetable production under poly house and open-farm conditions: A comparative study in Karnal, Haryana	Ms Kiran Saini	Dr. Rupa Upadhyay
7	2018	Usage of Digital Devices by farm women: A study in Tehri district, Uttarakhand	Ms. Heeba Jamal	Dr. Rupa Upadhyay
8	2018	Effect of Climate change on agricultural production: A study in Jodhpur, Rajasthan	Ms. Manisha	Dr. Rupa Upadhyay
9	2018	Deforestation and people: A study in Tehri district of Uttarakhand	Ms. Tanvi Gulati	Dr. Rupa Upadhyay
10	2018	Ganga's Tributaries and Livelihood practices of women farmers: A study in Tehri District Uttarakhand	Ms. Umang Chauhan	Dr. Rupa Upadhyay
11	2017	Women empowerment through Self Help Group: A study in Dehradun Uttarakhand	Ms Kusum Kumari	Dr. Rupa Upadhyay Ms Shweta Suman
12	2017	Community Correspondents and Micro-level changes: A study of video volunteers initiatives	Ms Pooja Ichplani	Dr. Rupa Upadhyay Dr. Archana Kumar
13	2017	Effect of heavy metals on vegetable farming along the Yamuna Floodplain: A comparative study of Vikasnagar (Uttarakhand) and Sonapat (Haryana)	Ms Deepa Tomar	Dr. Rupa Upadhyay
14	2016	Peri-Urban youth and agriculture: A study in Auchandi and dariyapur villages of outer Delhi	Ms Monika Yadav	Dr. Ruchi Gaur Dr. Rupa Upadhyay