

Research & Publications Department Projects

1. Identifying Policy Imperatives of Solar PV waste Management in India. (2025) ICSSR. Project Director: **Dr. Vandana Maurya**
2. 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

- **Sehrawat A, Raman S, Zenita O**, Agarwal M, Yadav S, Keshwar R and Sagar M (2024). Physical Science-A Practical Manual of Chemistry and Physics. Elite Publishing House, New Delhi. ISBN: 978-81-955567-6-2.
- **Gupta R** (2019) Science of Adolescence. Goya Publishing. ISBN: 9789388951647
- **Upadhyay R** (2017) Elements of Plant Sciences. Elite Publication ISBN-10 : 8188901687
- Ram H H, **Upadhyay R**, Dubey R K and Mandal B. (2017)Vegetable Seed Production Principles & Practices. ISBN: 9789327282641
- **Upadhyay R**, Pandey R, Raina N (2017). Botany- A Practical Manual. Elite Publication. ISBN: 978-81-88901-69-2
- **Gupta R** (2015) Fundamentals of Zoology: Theory and Practice. Elite Publication House, Delhi. ISBN: 818890161X
- **Gupta R** (2015) (Hindi Edition), Household pest animal and their control. National Book Trust. ISBN 978-81-237-6645-4

- **Gupta R** (2015) Fundamentals of Zoology. Elite Publishing House.
- Kochar, Shubhanku and **Upadhyay, Rupa** (2014) eds: New Women- Speaking Women. APH Publishing Corporation, Darya Ganj, New Delhi.
- Rao, K. S., Gupta, Y., & **Zenita O.** (2017) Ficus Glomarata Roxb: A Review on Its Anti-Diabetic Potential. In Recent Progress in Medicinal Plants Vol. 46-Metabolic Disorders: Diabetes, Part II (pp. 111-134). Studium Press, Llc, U.S.A. ISBN. 9781626990838.
- **Gupta R** (2015) Fundamentals of Zoology. Elite Publishing House
- Kochar S, and **Upadhyay R** (2014) Eds. New Women- Speaking Women. APH Publishing Corporation, Darya Ganj, New Delhi.

Research and Publications

Research Papers

2024-25

- Kumar, S., Kumar, P., **Upadhyay, A. N.**, Tripathi, P., & Gupta, R. K. (2025). Enhanced photocatalytic activity and dye degradation efficiency of La doped BiFeO₃–reduced graphene oxide nanocomposite. *International Journal of Materials Research*, (0).
- Singh, C. K., Sodhi, K. K., Saha, K., Sarma, S., **Shree, P.**, & Singh, P. (2025). Insight into the Environmental impact of Microplastics: A Perspective on the Sources, Detection, Ecotoxicity, and Remediation. *Total Environment Microbiology*, 100009.
- Pandey, Raghvendra., Singh, Pragati., **Upadhyay, A. N.**, Nokhwal, Radheshyam., Yadav, Avadhesh K, Shahid, R., & Singh, Prabhakar. (2024). Structural implications on transport dynamics in K-doped monomeric SrSiO₃ system. *Inorganic Chemistry Communications*, 148 (2024) 112923, 1-10.
- Singh, C. K., Sodhi, K. K., **Shree, P.**, & Nitin, V. (2024). Heavy Metals as Catalysts in the Evolution of Antimicrobial Resistance and the Mechanisms Underpinning Co-selection. *Current Microbiology*, 81(6), 148.
- Singh, N., Tyagi, N., Singh, M., Kushwaha, H. R., Sharma, R. K., **Shree, P.**, & Garg, M. (2024). Characterization, phytochemical profiling, antioxidant, and cytotoxicity of underutilized medicinal plants and composite flour. *Food Chemistry*, 139985.

- **Okram Z. D.**, Sudeep M., Samsul A., Thakur. L. K. (2025). Single-quad gas chromatography estimation of a few selected pesticides as residues in spices of the National, Capital Region of Delhi. *Environmental Monitoring and Assessment*, 197:432
- **Maurya V** (2025) International Cooperation for Green Hydrogen, Science Diplomacy Review, 7 (1), pp 29-34, ISSN 2583-4967
https://ris.org.in/sites/default/files/2025-06/SDR_April%202025.pdf

2023-24

- Mylswamy, M., Prakash, D., Bhattacharya, A., **Dwevedi, R.**, Myswamy, P., & Azeez, P. A. (2024). Policy document for bird conservation in the urban landscape of the National Capital Region, India. *Oryx*, 58(3), 289-289.
- **Sehrawat, A.** (2023). APPLICATIONS OF GREEN CHEMISTRY PRINCIPLES IN TEXTILE WET PROCESSING. *Journal of Advanced Scientific Research*, 14(09), 1-5.
- **Dwevedi R** and Zempilla M. (2023). Using sRGB image technology for field-based biomonitoring of agricultural fauna. 5th Annual Conference on Innovation for Smart, Sustainable and Safe food Systems, University of York, United Kingdom.
- Goyal, H., **Kumar, V.**, Saini, A. K., Kedawat, G., Gupta, B. K., & Gupta, R., (2023). A multifunctional Schiff base with aggregation-induced enhanced emission, gelation, and mechanochromic properties for anti-counterfeiting applications *Materials Today Chemistry*, 2023, 27, 10130
- **Raman, S.**, Sehrawat, A., Upadhyay, R., Singh, S., Verma, A., Aarushi, Jain, S., Raizada, P., Siddhu, A. & Aggarwal, A. (2023). Different methods used for determination of vitamin C: A review, *International Journal of Current Microbiology and Applied Sciences*, 12(9) 56-66.
- **Maurya, V**, Ghosh, V. (2023) Energy Labels in India: Do we Use it?. *Journal of Energy, Environment & Carbon Credits*, 13(2): 48–67.
- **Shree, P.**, Singh, C. K., Sodhi, K. K., Surya, J. N., & Singh, D. K. (2023). Biofilms: Understanding the structure and contribution towards bacterial resistance in antibiotics. *Medicine in Microecology*, 16, 100084.

- Singh, P. P., Sodhi, K. K., Bali, A. K., & **Shree, P.** (2023). Influenza A virus and its antiviral drug treatment options. *Medicine in Microecology*, 16, 100083.

2022-23

- **Dwevedi, R., Gupta, R., & Sethy, J. (2022).** A comparative study of regional climate trends in the Keoladeo and Bhitarkanika wetlands, India. *Journal of Applied and Natural Science*, 14(2), 332-340.
- Meena, M. K., Kumar, D., Jayaraj, A., Kumar, A., Kumari, K., Katata-Seru, L. M., Bahadur I., Kumar V., **Sherawat A., & Singh, P. (2022).** Designed thiazolidines: an arsenal for the inhibition of nsP3 of CHIKV using molecular docking and MD simulations. *Journal of Biomolecular Structure and Dynamics*, 40(4), 1607-1616.
- **Kumar, V., Singh, D., Kumar, P., Chaudhary, G., Singh, A. P., Gupta, R.,(2022).** Turn-on fluorescent detection of nickel and zinc ions by two related chemosensors containing naphthalimide ring (s). *Journal of Molecular Structure*, 2022, 1261, 132901

2021-22

- **Dwevedi, R., Deo, V., Sethy, J., Gupta, R., & Mylswamy, M. (2021).** Performance of imputation-based models in predicting breeding population trend of a near-threatened bird in changing water regime: A 36-year long-term case study of Painted Stork, *Mycteria leucocephala*. *Journal of Applied and Natural Science*, 13(3), 1072-1082.
- **Dwevedi, R., Gupta, R., & Sethy, J. (2021).** Is formation of new heronries a result of degradation of old heronries? An insight of Keoladeo-Complex heronries. *ZOO'S PRINT*, 36(10), 73-76.
- **Upadhyay, R.;** Bhatia, G.L. and Ram, H. H. (2001). Genotype environment interaction and stability analysis in tomato. *Prog. Hort.* 33(2): 190-193.

2020-21

- 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.
- Sodhi, K. K., Kumar, M., Balan, B., Dhaulaniya, A. S., **Shree, P.**, Sharma, N., & Singh, D. K. (2021). Perspectives on the antibiotic contamination, resistance, metabolomics, and systemic remediation. *SN Applied Sciences*, 3, 1-25.
- Kumar, P., **Kumar, V.**, & Gupta, R., (2020) Dipicolinamide and isophthalamide based fluorescent chemosensors: recognition and detection of assorted analytes. *Dalton Trans.*, 2020, 49, 9544–9555.
- Sudheer, **Kumar, V.**, Kumar, P., & Gupta, R., (2020). Detection of Al³⁺ and Fe³⁺ ions by nitrobenzoxadiazole bearing pyridine-2,6-dicarboxamide based chemosensors: effect of solvents on detection. *New J. Chem.*, 2020, 44, 13285–13294.
- Shally, **Kumar, V.**, Althagafi, I., Kumar, A., Singhal, D., Kumar, A., Gupta, R., & Pratap. R., (2020). Design and synthesis of new functionalized 8-(thiophen-2-yl)-1, 2,3,4-tetrahydro quinolines as turn-off chemosensors for selective recognition of Pd²⁺ ions. *New J. Chem.*, 2020, 44, 15559–15566.

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- **Kumar, V.**, Kumar, P., Kumar, S., Singhal, D., and Gupta, R., (2019) Turn-on fluorescent sensors for the selective detection of Al³⁺ (and Ga³⁺) and PPi ions. *Inorg. Chem.*, 2019, 58, 10364-10376.
- Kumar, G., Pachisia, S., Kumar, P., **Kumar, V.**, and Gupta. R., (2019). Zn- and Cd-based Coordination Polymers Offering H-Bonding Cavities: Highly Selective Sensing of S₂O₇²⁻ and Fe³⁺ Ions. *Chem. Asian J.*, 2019, 14, 1–8.
- Mishra, Pankaj K., **Upadhyay, Aditya N.**, Singh, Kedar., Kumar, Horesh., (2019) Structural Origin of Optical Band Edge Shift in Se₇₀Ge_{30-x}Bix (0<x<10) Glassy Alloys. *Chemistry Select*. 2019, 4, 6833 –6843.

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2018-19

- Kumar, M., Jaiswal, S., Sodhi, K. K., **Shree, P.**, Singh, D. K., Agrawal, P. K., & Shukla, P. (2019). Antibiotics bioremediation: perspectives on its ecotoxicity and resistance. *Environment international*, 124, 448-461.
- Tomar, D., & **Upadhyay, R.** (2018). Heavy metals in Yamuna river: A Review. *Int. J. Adv. Sci*, 540.
- **Dwevedi, R.**, Krishna, V., & Kumar, A. (2018). Environment and big data: Role in smart cities of India. *Resources*, 7(4), 64-73.
- Kumar, P., **Kumar, V.**, Pandey, S., and Gupta, R., (2018). Detection of sulfide ion and gaseous H₂S using a series of pyridine-2,6-dicarboxamide-based scaffolds. *Dalton Trans.*, 2018, 47, 9536-9545.
- **Upadhyay, A. N.**, Tiwari, R. S., and Singh, Kedar. Annealing effect on thermal conductivity and microhardness of carbon nanotube containing Se₈₀Te₁₆Cu₄ glassy composites. *Mater. Res. Express* 5 (2018) 025203.
- Srivastava, Archana., Tiwari, S.N., **Upadhyay, A. N.**, Zulfequar, M. First-order phase transformation and structural studies in Se₈₅In₁₅2xZn_x chalcogenide glasses. *Therm Anal Calorim*. DOI 10.1007/s10973-017-6273-9

2017-2018

- Rashmi, D., **Shree, P.**, & Singh, D. K. (2017). Stable isotope ratio analysis in determining the geographical traceability of Indian wheat. *Food Control*, 79, 169-176.
- **Shree, P.**, Kumar, M., & Singh, D. K. (2017). Evaluation of total phenolic content and antioxidative properties of unpolished and polished black, red and brown rice varieties from India. *Journal of Agricultural Engineering and Food Technology*, 4(2), 113-117.

- Krishna, V., Pandey, R., **Dwevedi, R., Raina, N., Raman, S.**, Sehrawat, A., Gupta R., & Upadhyay, R. (2017). *International journal of advanced education and research*, 2, 174-178.
- **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.
- 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.
- **Krishna V, Upadhyay R**, Pandey R, and **Dwevedi R** (2017). Integrated Pest Management: A Brief Review. *Int. J. Biology Research* 2(2): 70-74
- 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
- **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

Before 2016

- 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.
- Nishant, N. and **Upadhyay, R.** (2016). Presence of pesticide residue in vegetable crops: A review. *Agricultural Reviews*, 37 (3): 173-185.
- **Okram Zenita Devi**, K. Basavaiah, K. B. Vinay and H. D. Revanasiddappa. (2016). Sensitive spectrophotometric determination of metoclopramide hydrochloride in dosage forms and spiked human urine using vanillin. *Arabian Journal of Chemistry*. 9, S64-S72.
- **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.

- 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)
- 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.
- **Okram Zenita Devi**, K.S. Rao, Ankita B. Radhapiyari W. and Okram M. S. (2015) GC-MS analysis of phytocomponents and antifungal activities of *zanthoxylum acanthopodium* dc. collected from Manipur, India.European Journal of Medicinal Plants. 10 (1), 1-9.
- **Okram Zenita Devi**, Sameer A. M. Abdulrahman, Kanakapura Basavaiah and Kanakapura B. Vinay. (2015). Use of perchloric acid for the development and validation of a non-aqueous titrimetric assay of lansoprazole in pharmaceutical capsules. Journal of Chemical and Pharmaceutical Research. 7(2), 685-691.
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- 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.
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- 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)
- **Nancy Raina**, K. S. Rao, S.Sreekesh (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
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- **Okram Zenita Devi**, K. Basavaiah and K. B. Vinay. (2013) Quantitative determination of lansoprazole in capsules and spiked human urine by extraction-free spectrophotometry through ion-pair complex formation reaction. Journal of Saudi Chemical Society. 17 (4), 387-396.
- **Okram Zenita Devi**, K. Basavaiah, P. J. Ramesh and K. B. Vinay. (2012) Development of a simple UV-spectrophotometric method for the determination of lansoprazole and study of its degradation profile. Quimica Nova. 35 (2), 386-391.
- **Okram Zenita Devi**, K. Basavaiah and K. B. Vinay. (2012) Simple and selective spectrophotometric methods for the determination of domperidone in pharmaceuticals through charge transfer complex formation reaction. Turkish Journal of Pharmaceutical Sciences. 9 (1), 27-40.
- **Okram Zenita Devi**, K. Basavaiah, K. B. Vinay and H. D. Revanasiddappa. (2012) Determination of metoclopramide hydrochloride in pharmaceuticals and spiked human urine through diazotization reaction. Journal of Food and Drug Analysis. , 20 (2), 454-463.
- 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.
- **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.

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- **Okram Zenita Devi**, K. Basavaiah and K. B. Vinay. (2011). Sensitive and selective extraction free ion-pair complexometric determination of domperidone in pharmaceuticals and in spiked human urine. *Journal of Chilean Chemical Society*. 56(2), 715-720.
- **Okram Zenita Devi**, K. Basavaiah and K. B. Vinay. (2011). Titrimetric and spectrophotometric assay of pantoprazole in pharmaceuticals using cerium (IV) sulphate as the oxidimetric agent. *Journal of Analytical Chemistry*. 6(5), 490-495.
- **Okram Zenita Devi** and K. Basavaiah. (2011). Utility of N-bromosuccinimide for the titrimetric and spectrophotometric determination of famotidine in pharmaceutical formulations. *International Journal of Analytical Chemistry*. Article ID 581372; doi:10.1155/2011/581372
- K. Basavaiah and **Okram Zenita Devi**. (2011). Spectrophotometric determination of famotidine using sulphonphthalein dyes. *Quimica Nova*. 34 (5), 735-742.
- **Okram Zenita Devi**, K. Basavaiah, P. J. Ramesh and K. B. Vinay. (2011). Simple and sensitive UV-spectrophotometric methods for determination of famotidine in tablet formulations. *Farmacia*. 59(5), 647-658.
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- **Okram Zenita Devi**, K. Basavaiah and K. B. Vinay. (2010). Sensitive and selective spectrophotometric determination of pantoprazole sodium in pharmaceuticals using permanganate. *Chemical Industry & Chemical Engineering Quaterly*. 16(1), 97-102.

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- K. B. Vinay, H. D. Revanasiddappa, **Okram Zenita Devi** and K. Basavaiah. (2010). Use of Fe(III)chloride for the sensitive and selective assay of etamsylate in pharmaceuricals. Jordan Journal of Chemistry. 5(3), 291-305.
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- **Raman, S.**, Yadav, B. K., Bisht, N. S., Husain, M., & Kandpal, H. C. (2009). A simple experimental method to generate partially coherent optical bottle beam. Optics and lasers in engineering, 47(11), 1282-1285.
- K. Basavaiah, **Okram Zenita Devi**, K. Tharpa, N.Rajendraprasad, U. R. Anilkumar, S. G. Hiriyanna and K. B. Vinay. (2009). Iodimetric assay of olanzapine in pharmaceuticals using iodate and nile blue as reagents. Chemical Industry & Chemical Engineering Quaterly. 15(2), 95-102.
- K. Basavaiah, **Okram Zenita Devi**, K. Tharpa, N. Rajendraprasad, U.R. Anilkumar, S.G. Hiriyanna and K.B. Vinay. (2008). Simple and selective spectrophotometric assay of olanzapine in pharmaceutical using iodate. National Academy Science Letters. 31(11&12), 319-325.
- K. Basavaiah and **Okram Zenita Devi**. (2008). Cerimetric determination of simvastatin in pharmaceuticals based on redox and complex formation reactions. Ecletica Quimica. 2(33), 21-28.
- Yadav, B. K., **Raman, S.**, & Kandpal, H. C. (2008). Information exchange in free space using spectral switching of diffracted polychromatic light: possibilities and limitations. Journal of the Optical Society of America A, 25(12), 2952-2959.

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- Kandpal, H. C., Yadav, B. K., Mehrotra, R., Kanseri B., **Raman, S.**, & Bisht, N.S. (2007). Spectral Anomalies in Phase Singularities and their Applications. *Invertis Journal of Science & Technology*, 1, 156-170.
- Yadav, B. K., Rizvi, S. A. M., **Raman, S.**, Mehrotra, R., & Kandpal, H. C. (2007). Information encoding by spectral anomalies of spatially coherent light diffracted by an annular aperture. *Optics communications*, 269(2), 253-260.
- Kandpal, H. C., **Raman, S.**, & Mehrotra, R. (2007). Observation of Gouy phase anomaly with an interferometer. *Optics and lasers in engineering*, 45(1), 249-251.
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- **Upadhyay, R.**; Ram, H. H. and Singh, D.K. (1998). Cultivar Identification through seed protein electrophoresis in bottle gourd. *Veg. Sci.* 25: 11-13.

Book Chapters

- Kumar, S., Kumar, P., **Upadhyay, A. N.**, Tripathi, P., & Gupta, R. K. (2025). Enhanced photocatalytic activity and dye degradation efficiency of La doped BiFeO₃–reduced graphene oxide nanocomposite. *International Journal of Materials Research*, (0).
- Chandra, A., Gupta, Y., Dinakaran, J., **Raina, N.**, Hanif, M., Meena, A., & Rao, K. S. (2024). Climate Change and Biodiversity in the Himalaya: Trends and Perception. In *Biodiversity Hotspot of the Himalaya* (pp. 439-458). Apple Academic Press.
- Sodhi, K. K., **Shree, P.**, Mishra, L. C., Mishra, G., Kumar, M., & Singh, D. K. (2023). Promising Compounds of Plant Origin and Their Synthetic Analogs Against Trypanosomes. In *Natural Product Based Drug Discovery Against Human Parasites: Opportunities and Challenges* (pp. 411-429). Singapore: Springer Nature Singapore.
- **Maurya, V.**, Ghosh, P. and Gunawat, A (2023) STI Policy Push Towards Hydrogen Economy in India. In *Climate Action and Hydrogen Economy: Technologies Shaping the*

Energy Transitions (ed.Malti Goel and Gautam sen), pp.107-118, ISSN 156-3529. Springer.

- Bajaj, S., **Shree, P.**, & Singh, D. K. (2022). Bioinformatics and Vaccine Development: Overview and Prospects. *Microbial Products*, 435-454.
- **Maurya, V., (2022)** *Sustainable Development Report 2022 From Crises to Sustainable Development: The SDGs as Roadmap to 2030 and Beyond*”, Science Diplomacy Review, Vol. 2(4), pp 45-47
- **Shree, P.**, Kumar, M., & Singh, D. K. (2021). Molecular and biochemical aspect of insect-plant interaction: a perspective for pest management. *Plant-Pest Interactions: From Molecular Mechanisms to Chemical Ecology: Chemical Ecology*, 417-436.
- Sodhi, K. K., Kumar, M., **Shree, P.**, Singh, I. K., & Singh, D. K. (2020). Ecological risk of dioxin exposure. In *Dioxin* (pp. 143-153). CRC Press.
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- **Sharma. A., Maurya. V., (2023, August 21)** “*Promote NBS through G20 Presidency*”, The Daily Pioneer
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Thesis/Dissertation

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

M.Sc. Dissertation

S.No.	Year	Title of dissertation	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 Upadhya Prof V S Mehrotra
2.	2016	Effectiveness of Safe drinking water and utilisation of discarded water from Reverse Osmosis system	Deepika Prasad	Dr Renuka Gupta
3.	2015	Pilot study on Adolescent health education.	Devyani Lingwal	Dr Renuka Gupta

4.	2015	Carbon footprints of cremation.	Priyanka Nimesh	Dr Renuka Gupta
5.	2015	Participation of Women in Agriculture: A study in Pilibhit District	Dixita	Dr Rupa Upadhyay
6.	2015	Impact of polluted Yamuna water on agriculture practices performed by the farming community in Delhi.	Deepa Sharma	Dr Rupa Upadhyay
7.	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
8.	2017	Women empowerment through Self Help Group: A study in Dehradun Uttarakhand	Ms Kusum Kumari	Dr. Rupa Upadhyay Ms Shweta Suman
9.	2017	Community Correspondents and Microlevel changes: A study of video volunteers initiatives	Ms Pooja Ichplani	Dr. Rupa Upadhyay Dr. Archna Kumar
10.	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
11	2018	Deforestation and people: A	Ms. Tanvi Gulati	Dr. Rupa

		study in Tehri district of Uttarakhand		Upadhyay
12.	2018	Ganga's Tributaries and Livelihood practices of women farmers: A study in Tehri District Uttarakhand	Ms. Umang Chauhan	Dr. Rupa Upadhyay
13	2019	Information & Communication Technologies: Utilization pattern in Jhajjar in Karnal Haryana.	Ms Jyoti Yadav	Dr. Rupa Upadhyay
14.	2019	Aspirations of Rural Youth towards agribusiness: A study in Bhagpat District of Uttar Pradesh	Ms Himani Bharat	Dr. Rupa Upadhyay
15.	2019	Effectiveness of vegetable production under poly house and open-farm conditions: A comparative study in Karnal, Haryana	Ms Kiran Saini	Dr. Rupa Upadhyay
16.	2019	Usage of Digital Devices by farm women: A study in Tehri district, Uttarakhand	Ms. Heeba Jamal	Dr. Rupa Upadhyay
17.	2019	Effect of Climate change on agricultural production: A study in Jodhpur, Rajasthan	Ms. Manisha	Dr. Rupa Upadhyay
18.	2020	Empowerment of Farm Women through Agricultural Practices: A study in Tehri Garhwal District,	Ms Ankita	Dr. Rupa Upadhyay

		Uttarakhand		
19.	2020	Involvement of Rural Farm Women in Mushroom Cultivation: A Study in two districts of Bihar	Ms Beauty	Dr. Rupa Upadhyay
20.	2020	Urban Agricultural Practices in Households: A Study in Delhi NCR	Ms Sanchya	Dr. Rupa Upadhyay

Students submitted Ph.D./ Pursuing

S.No.	Year	Title of dissertation	Name of Student	Name of Supervisor
1.	2016	Determining Consumers' Awareness and Purchase Patterns of Organic Food Consumption-A Study In Delhi NCR	Sanchya	Prof. Rupa Upadhyay
2.	2021	Indigenous IPM Technopackages for the Management of Root Knot Nematode	Mohd Amir	Prof. Rupa Upadhyay