

Prof. NITIN KAMBOJ



Name	Prof. Nitin Kamboj
Designation	Professor
Date of Joining	18 th October 2006
Department	Zoology and Environmental Sciences
Present address	Gurukula Kangri (Deemed to be University), Haridwar-249404 (Uttarakhand), India
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Education Qualifications	
Ph. D.	Environmental Sciences from Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand)
Title	“Environmental Impact Evaluation of Torrents with Special Reference to Sabhawala Watershed in Doon Valley (Uttarakhand).”
UGC- NET	Environmental Sciences
M. Sc.	Environmental Sciences from Gurukula Kangri Vishwavidyalaya, Haridwar-249404 (Uttarakhand)
B. Sc.	Environment & Water Management from H.N.B.G.U, Srinagar-Garhwal (UK)

Teaching Experiences

Ph.D. Classes Teaching	10 Years
Post Graduate Classes Teaching	16 Years
Under Graduate Classes Teaching	16 Years
Research Experience	19 Years
Research Areas	Environmental Aspects

List of Seminar Publications 02 (Annexure 7)

List of Awards and Appreciation 12 (Annexure 8)

List of Ph.D. student (Annexure 9)

List of M.Phil./M. Sc. Dissertation (Annexure 10)

Academic Courses

General Orientation Course Academic Staff College, Shimla
University, Shimla

Refresher Course

1. Academic Staff College, Punjabi University, Patiala (2010)
2. Academic Staff College, Sant Gadge Baba Amravati University, Amravati (2014)

Research Methodology Zoology and Environmental Science,
Gurukula Kangri Vishwavidyalaya,
Sponsored by UCOST Dehradun (2018)

Field Experience

- JRF - 1Year Field Work Experience in Wild Life Institute of India, Dehradun.
- SRF - 2 Year and 6 Months Field Work Experience in CSWCR&TI - (ICAR) Kaulagarh Road, Dehradun.

Foreign Visit

- Mauritius to Attend an International Congress of Environmental Research, Reduit University of Mauritius during 11- 18 September 2010.

Members of the different academic societies

- Life Member of Human Welfare Societies.
- Life Member of Swami Vivekananda Educational Trust.
- Life Member of Applied and Natural Science Foundation.
- Life Member of Indian Association of Soil and Water Conservationists.
- Life Member of Environmental Conservation Journal.
- Life Member Foundation of Natural Science and Culture.

Members of the different academic committees

- Expert Doctoral Committee Meeting of SRM Institute of Science and Technology Delhi-NCR Campus, Modinagar, Ghaziabad

Sponsored Gold medal

Sponsored gold medal by the name of late mother Smt Shimla Devi for the students of Environmental Science to motivate students towards environmental education of M.Sc Environment Science students of Gurukula Kangri University , Haridwar.

Major Research Project

A major research project funded by UCOST project no. UCS&T/R&D-20/22-23/91110/1 of Rs 796800/- entitled 'Current status of solid waste implementation of the project generation, its impacts, and sustainable management plan in Haridwar district, Uttarakhand' in year June 2022.

Program organized

1. As organizing secretary organized an International Conference of World Congress for Man and Nature “Global Climate & Biodiversity Conservation in the Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 11-13 November, 2011.
2. As a member organized National Conference on Status of Environment and Biodiversity: RIO + 20 and Role of Space Organized in the Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 02-03 November, 2012.
3. As organizing secretary organized work shop on “Our Himalayas: environmental challenges and solutions” on the occasion of Himalayan day organized under the auspices of Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 9th September, 2015.
4. As organizing secretary organized work shop on “Impact of Ozone Depletion on water resources” on the occasion of International Ozone Day organized under the Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) during 16 September, 2016.
5. As organizing secretary organized work shop on “Aapada Prabandhan Chintanavam Goraeya Sanrakshan Abhiyan” on 20 March 2017 in Department of Zoology and Environmental Sciences at Gurukula Kangri Vishwavidyalaya, Haridwar.
6. As Coordinator in workshop on International Ozone Day “Effect of ozone on earth’s Environment & Control Measures” on 16 September, 2017 in Department of Zoology and Environmental Sciences at Gurukula Kangri Vishwavidyalaya, Haridwar.
7. As a member of oral/ poster presentation Committee in workshop on International Ozone Day “Effect of Ozone on earth’s Environment & Control Measures” on 16

September, 2017 in Department of Zoology and Environmental Sciences at Gurukula Kangri Vishwavidyalaya, Haridwar.

8. As a member in organizing committee in XXVI International Bioacoustics Congress in Haridwar (Uttarakhand) during 08-13 October, 2017.
9. As Convener organized a National workshop on “Ecosystem Restoration in Himalayan region for sustainable livelihood” organized by Department of Zoology and Environmental Sciences, Gurukula Kangri (Deemed to be University), Haridwar (Uttarakhand) on June 05, 2021.
10. Organized world sparrow day in the Department of Zoology and Environmental Science, Gurukula Kangri University, Haridwar (Uttarakhand) on 20 March 2021.
11. Organized National Symposium on Avian Biology and chaired one technical session in the Department of Zoology and Environmental Science, Gurukula Kangri University, Haridwar (Uttarakhand) on 30-31st March 2021.
12. National Workshop on the Occasion of World Wetland Day, on 2nd February, 2022 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
13. National Workshop on the Occasion of World Technology Day, on 11th May, 2022 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
14. National Workshop on the Occasion of World Environment Day, on 4th - 5th June, 2022 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
15. Organized one-week National workshop on “Science Communication and Research Methodology” in Department of Zoology and Environmental Science, G.K. (Deemed to be University), Haridwar from 21-26 Nov 2022.
16. Organized Environment Awareness Workshop on Biodegradable Solid Waste Management and Vermi Farming for Sustainable Environment 5th June 2023 on the Occasion of World Environment Day, organized as a convenor, Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,

17. As Convener organized a National workshop on Vedic microbiology and Modern Biotechnology 27th March to 29th March” organized by faculty of life science Gurukula Kangri (Deemed to be University), Haridwar (Uttarakhand) on march 2023.
18. Organized an educational tour on the Occasion of World Wetland Day, on 2nd February, 2024 of M.sc and Ph.D. students of Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be Univeristy), Haridwar, Uttarakhand, to visit the Jhilmil Wetland in Chidiyapur reserve forest By Bus.
19. Organized Environment Awareness Workshop on Plantation Drive and competition 5th June 2024 on the Occasion of World Environment Day, organized as a organizing secretary, Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,

Other activities

1. Organized ten days’ camp of students at Gurukula Kangri village, Haridwar as NSS Programme Officer.
2. Organized one-day camp of students at Gurukula Kangri village, Haridwar as NSS Programme Officer.
3. Indian Medical Association awarded an appreciation letter in recognition of the outstanding voluntary services in the field of blood donation, blood group testing, and nation building and community services.
4. Organized one-day camp and other activity camps of students in Haridwar as NCC Officer.
5. Organized various voluntary blood donation camps as a representative of Gurukula Kangri University with Uttarakhand State AIDS Control Society and Directorate, Medical Health & Family Welfare, Uttarakhand.
6. Worked as, a sector magistrate in election duties MLC of Uttarakhand 2017.
7. Organized a one-day workshop on Himalayan day at Department of zoology and environmental Science, Gurukula Kangri Vishwavidyalaya, Haridwar as organizing secretary on 9 September 2018.

8. Organized Ten Days National Workshop as an Executive Committee Members on “Research methodology in science & technology (Multi-disciplinary)” sponsored by UCOST, Dehradun and Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) on October 04-13, 2018.
9. Successfully completed three MLC election (voting duty and counting duty) duties as Presiding Officer.
10. Active Member of Local Committees of different universities such as sports selection, election and admission etc.
11. Practical Examinee.
12. Presently working as an active proctorial board member in the university campus.
13. Presently working as Hostel Warden of Pandit Gurudut Vidyarathi hostel of Gurukula Kangri (Deemed to be University), Haridwar from Dec 2017 to till date.
14. Successfully completed 2022 Election duty in as Executive Magistrate in 35 Gramin Haridwar.
15. Certified Yoga Volunteer by the the Yoga Certification Board under voluntary certification of Yoga professionals Ministry of AYUSH , Govt of India from 30 Oct 2022 to 29 Oct 2022.

Sessions Chaired in International/National conferences.

1. Co-Chaired the session in state science festival 2007 organized by state educational research and training council Uttarakhand, 1-5, Nov 2007.
2. Chaired the session of International Congress of Environmental Research (ICER-10) as a coordinator during 16-18 September 2010 organized by University of Sport, Gurukula Kangri University, Haridwar (Uttarakhand) during 9-10 December, 2010.
3. Chaired the session of International Congress of Environmental Research (ICER-10) as a coordinator during 16-18 September 2010 organized by University of Sport, Gurukula Kangri University, Haridwar (Uttarakhand) during 9-10 December 2010.

4. Chaired the session of Training programs on Advanced Experimentations as a during 20-30, June 2014, organized by Department of Pharmaceutical Sciences faculty of Medical Sciences and Health, Gurukula Kangri University, Haridwar (Uttarakhand).
5. Co-Chaired the session in 5th National Conference on present innovative & new paradigm in physical Educational organized by Department of Physical Education & Sport, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) during 29th August 2014.
6. Chaired the technical session of international conference on advances in the field of Health, Safety, Fire, environment, allied science and Engineering (HSFEA 2016) as a chairperson during 18-19 November 2016 organized by University of Petroleum and Energy Studies (UPES) Dehradun in collaboration with the Springer Journal.
7. Chaired the technical session of National conference on Recent Advances in Science, technology and management, April, 29-30-2017, 2017 organized by University of Petroleum and Energy Studies (UPES) Dehradun.
8. Chaired the technical session of National conference on ASCMAP-2017 as a chairperson during 18 December 2017 organized by University of Petroleum and Energy Studies (UPES) Dehradun.
9. Chaired the technical session of international conference on advances in the field of Health, Safety, Fire, environment, allied science and Engineering (HSFEA 2018) as a chairperson during 16-17 November 2018 organized by University of Petroleum and Energy Studies (UPES) Dehradun in collaboration with the Springer Journal.
10. Chaired the technical session of National conference on Sustainable Management of Environment & Natural Resource Through Innovation in Science and Technology (SMTST 2020) during 07-08 August 2020 (Online mode) organized by University of Petroleum and Energy Studies (UPES) Dehradun in collaboration with the D.B.S. (P.G.) College, Dehradun.
11. Co-Chaired the technical session of international conference GangaAyurCon-2022 on Medicinal Plants of Ganga River Basin and their Therapeutic

Importance in India System of Medicine held at Gurukul Campus Ayurved University, Haridwar during 05-06 September 2022 organized by Uttarakhand Ayurved University.

12. Chaired the technical session on Climate Resilient Agriculture on 13 October 2022 in Sustainability Fair-2022 at University of Petroleum and Energy Studies, Dehradun, held on 11-14 October 2022.
13. Chaired the technical session in national Conference on Vedic microbiology vs modern biotechnology: Organized by faculty of life sciences, Gurukula Kangri (Deemed to be University) , Haridwar held on 27-29 March 2023.
14. Chaired the technical session on 4th. International Sustainability conference on HSFEA 30-31 Oct-2023 at University of Petroleum and Energy Studies, Dehradun.
15. Chaired/ invited lecture topic entitled “Vermitechnology and organic farming in Uttarakhand India.” in International Seminar on Ayurveda for Health: Organized by Department of Microbiology and Microbiology, Gurukula Kangri (Deemed to be University), Haridwar held on 7-Nov. 2023.
16. Chaired/ invited lecture the technical session on international Conference on Veda Vijnana and Sanskriti Mahakumbha: Organized by Organized by Gurukula Kangri (Deemed to be University), and Sponsored by Ministry of Culture, Government of India, New Delhi. Haridwar is held on 23-25 Dec. 2023.

17. Annexure 2: List of Research Papers Presented in Local, National and International Conferences/ Seminars (47)

1. Paper entitled “Current Status of Jatropha Plantation and Its Applications” presented in National Seminar on Medicinal Plants: Conservation, Cultivation and Utilization II organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 09-11 March, 2007.
2. Paper entitled “Impact of Climate Change on Biodiversity” presented in National Symposium on Impact of Trends in Climate Change on Bio-diversity and Faunistic

Systems organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 19-20 February, 2010.

3. Paper entitled “Impact Assessment of Torrential Hazards in Relation to Bio-engineering Remedial Measures at Sabhawala Watershed in Shiwalik Himalaya (India)” presented in International Congress of Environmental Research organized by University of Mauritius in collaboration with the Journal of Environmental Research and Development in Reduit, Mauritius during 16-18 September, 2010.
4. Paper entitled “Evaluation of Different Torrent Remedial Measures at Sabhawala Watershed in Shiwalik Himalaya (India)” presented in 5th Uttarakhand State Science and Technology Congress organized by Uttarakhand Council for Science and Technology (UCOST), Dehradun in association with Doon University, Dehradun (Uttarakhand) during 10-12 November, 2010.
5. Paper entitled “Sustainable Development of Tourism in the Himalayan State Uttarakhand” presented in 4th National Conference on Modern Trends & Directions of Physical Education & Sport organized by Department of Physical Education & Sports, Gurukula Kangri University, Haridwar (Uttarakhand) during 09-10 December, 2010.
6. Paper entitled “Some Vegetative Methods as a Nature’s Free Tool for Controlling Soil Erosion Leading to Floods” presented in National Seminar on Environmental Management and Biodiversity Conservation organized by Omkaranand Institute of Management & Technology, Rishikesh (Uttarakhand) during 26-27 February, 2011.
7. Paper entitled “Abstract No. 95” presented in National Seminar on New Innovations in Parasitological Research and Prof. S.S. Lal Felicitation Symposium organized by Department of Zoology, D.A.V. (P.G.) College, Dehradun (Uttarakhand) during 29-30 March, 2011.
8. Paper entitled “Soil Erosion as a Serious Threat to Degrade the Land Resources and Its Management” presented in International Conference on World Congress for Man and Nature: Global Climate & Biodiversity Conservation organized by

Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 11-13 November, 2011.

9. Paper entitled “Ground Water Contamination due to Municipal Solid Waste Disposal in Delhi, India” presented in International Conference on Green Technology for Environmental Rehabilitation (GTER-2012) organized by Faculty of Engineering & Technology, Gurukula Kangri University, Haridwar (Uttarakhand) during 11-13 February, 2012.
10. Paper entitled “The Relation between Sport and Ecological Environment” presented in International Conference on Global Innovation, Strategies & Policies in Physical Education & Sport Sciences organized by Department of Physical Education & Sports, Gurukula Kangri University, Haridwar (Uttarakhand) during 24-26 February, 2012.
11. Paper entitled “Unsustainable River Bed Material Mining and Its EIA on Ganga at Kangri Village District Haridwar (Uttarakhand), India” presented in National Conference on Status of Environment and Biodiversity: RIO + 20 and Role of Space Technology organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 02-03 November, 2012.
12. Paper entitled “Road Widening and Its EIA on Flora and Fauna Recorded from Narshan to Dehradun” presented in 7th Uttarakhand State Science and Technology Congress organized by Uttarakhand Council for Science and Technology (UCOST), Dehradun in association with Graphic Era University, Dehradun, (Uttarakhand) during 21-23 November, 2012.
13. Paper entitled “Assessment of Physico-chemical Parameters of Industrial and Domestic Wastes at SIDCUL Region, Haridwar” presented in National Conference on Emerging Trends in Engineering and Sciences (ETES-2013) organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar (Uttarakhand) during 09-10 November, 2013.
14. Paper entitled “Study of Physiological Characteristics of Ranipur Rao Watershed, Haridwar (Uttarakhand) and Controlling Measures” presented in 8th Uttarakhand State Science and Technology Congress organized by Uttarakhand Council for

Science and Technology (UCOST), Dehradun in association with Uttarakhand Technical University, Dehradun and Doon University, Dehradun (Uttarakhand) during 26-28 December, 2013.

15. Paper entitled “Current Status of Shivalik Himalayan Watershed Ranipur Torrent” presented in National Symposium in “Innovations on Science and Technology for Inclusive Development” organized by Haridwar Chapter of the Indian Science Congress Association on February 16, 2014.
16. Paper entitled “A Study of Ranipur Rao affected Watershed by Seasonal Hill River and its Remedial Measures” presented in “National conference on recent advances in biosciences and drug discovery” organized by Department of Pharmaceutical Sciences, Faculty of Ayurved and Medical Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 03-04 March, 2014.
17. Paper entitled “A comparative study between the outdoor exercise and Gym Exercise” presented in 5th National Conference on present innovative & new paradigm in physical Education & Sport Sciences organized by Department of Physical Education & Sports, Gurukula Kangri University, Haridwar (Uttarakhand) during 29th August 2014.
18. Paper entitled “Characterization of SIDCUL effluents in Ranipur Rao Haridwar, (UK)” presented in Regional Symposium on Technovation for Inclusive Human Development organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar (Uttarakhand) during October 12, 2014.
19. Paper entitled “Shiwalik Himalaya Facing Serious Threats as Biodiversity Loss and Soil Erosion and Its Sustainable Management” presented in National Conference on threats to biodiversity and ecosystems: impacts of developmental projects and climate change and 25th all India congress of zoology organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 17 - 19 November, 2014.
20. Paper entitled “Environmental impact assessment of Ganga mining in Haridwar area Uttarakhand)” presented in National Conference on Science and Technology for Human

Development organized by ISCA: Chapter Haridwar and AIHC&A, Gurukula Kangri University, Haridwar (Uttarakhand) during March 20-21, 2015.

21. Paper entitled “Effect of Environmental factor on the treatment of life-style disorder through yogic management” presented in National Conference on Yogic Management of Life Style Disorders organized by Department of human consciousness & yogic science, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) during 30 to 31march 2015.
22. Paper entitled “Physico-chemical parameter assessment of Solani River at Roorkee, Uttarakhand, India. Presented in National Conference on Science and Technology for indigenous development in India” held at faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya, Haridwar September during 28-30, 2015.
23. Poster presentation entitled “A Study on metal pollution in Ganga canal water” presented in National conference on Monitoring and management of drinking water quality (MMDWQ) and XXVIII annual conference of nation environmental science academy at Uttarakhand state Council for Science and Technology (UCOST), Dehradun (Uttarakhand) during 21-23 December, 2015.
24. Paper presented entitled “Ground Evaluation and Management needs of some seasonal hill rivers of Shiwalik Himalayan watershed in Haridwar district, Uttarakhand” Presented in International Conference on Advances in Science, Engineering and Technology (ICASET-2016) organized by International Journal of Advance Research and Innovation MANU- International Council for Man and Nature during 29-30 January 2016.
25. Attended Symposium on Sanskritvaamyam shilpvigyanm (in special reference to aeronautical technology) organized by Sanskrit Department, in Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 30 March, 2016.
26. Paper entitled “A comparative study of physico-chemical and bacteriological parameters of three different ritual bathing Ghats of Ganga River, India” presented in National Conference on Science and Technology for National Development organized by ISCA:

chapter Haridwar, Gurukula Kangri University, Haridwar (Uttarakhand) during November 20-22, 2016.

27. Paper entitled “Barriers for Channelization of seasonal Hill Rivers in Doon Valley” presented in National seminar on Reduce, Reuse and Recycle for Sustainable future organized by Himgiri Zee University, Dehradun (Uttarakhand) during 25 November 2016.
28. Paper entitled “Mode of riverbed mining and its surround impacts in Uttarakhand” presented in National conference on Recent advances in sciences, technology and management held in Phonics group of institutions, Roorkee during 29-30 April 2017.
29. Paper entitled “Seasonal and Spatial Variations in Ganga Canal Water Quality: a case Study of Haridwar district, Uttarakhand (India)” presented in National seminar on The role of Green Energy in Sustainable future organized by Himgiri Zee University, Dehradun (Uttarakhand) during 10 November 2017.
30. Presented a research paper entitled “Ecological assessment of riverbed mining in the Mohammed Rao watershed area, Dist. Haridwar” in National conference on ASCMAP-2017 at University of petroleum and energy studies on 18-12-2017.
31. Presented a research paper entitled “Assessment of Nutrient distribution as affected by Land use pattern in Haridwar region, UK in International conference on advances in the field of Health, Safety, Fire, environment, allied science and Engineering (HSFEA 2018) during 16-17 November, 2018 organized by University of Petroleum and Energy Studies (UPES) Dehradun in collaboration with the Springer Journal.
32. Presented a research paper entitled “Impact assessment of irrigational water on physico-chemical characteristics and nutrients dynamics of soil in different agricultural fields of district Haridwar” presented in National Conference on Science and Technology: rural development organized by ISCA: CHAPTER Haridwar, Gurukula Kangri University, Haridwar (Uttarakhand) during February 15-16, 2020.
33. Presented a research paper entitled “Seasonal variation in physico-chemical characteristics of the irrigational water used for agricultural fields of district Haridwar” in National colloquium/conference on medicinal plants, ecology, Himalaya & society at Dev Sanskriti Vishwavidyalaya held on 20-02-2020.

34. Presented a research paper entitled “Characterization of Soil quality of solid waste dumping sites of Haridwar city, India” in Sustainable Management of Environment & Natural Resource through innovation in Science and Technology (SMTST 2020) at University of Petroleum and Energy Studies, Dehradun held on 7-8 August 2020.
35. Presented a research paper entitled “Sand-gravel mining as a threat to macro-benthic assemblage and habitat parameters: A case study of River Ganga, India” in Sustainable Management of Environment & Natural Resource through innovation in Science and Technology (SMTST 2020) at University of Petroleum and Energy Studies, Dehradun held on 7-8 August 2020.
36. Presented a research paper entitled “Physiochemical characterization of Vermicompost produced by composting garden and agriculture waste by earthworm *Eisenia fetida*” in GangaAyurCon-2022 at Gurukul Campus, Uttarakhand Ayurvedic University, held on 5-6 September 2022.
37. Presented a research paper entitled “A study on the efficiency of garden waste decomposition and reproductive potential assessment of *Eisenia fetida*” in Sustainability Fair-2022 at University of Petroleum and Energy Studies, Dehradun, held on 11-14 October 2022.
38. Presented a research paper entitled “Current status of municipal solid waste generation and management practices in the Haridwar municipality, Uttarakhand.” in Sustainability Fair-2022 at University of Petroleum and Energy Studies, Dehradun, held on 11-14 October 2022.
39. Presented a research paper entitled “A multivariate and statistical assessment of heavy metal toxicity in different water resources of Haridwar city, Uttarakhand, India.” in Sustainability Fair-2022 at University of Petroleum and Energy Studies, Dehradun, held on 11-14 October 2022.
40. Presented a research paper entitled “Enhancement of organic farming through Vermitechnology- Converting waste into a resource and generating economy opportunity.” in International Conference on Environment and Human Health: Global Issues Organized by Department of Microbiology and Microbiology,

Gurukula Kangri (Deemed to be University), Haridwar held on 7-8 December 2022.

41. Presented a research paper entitled “Vermistabilization improving organic farming and turning waste into resources” presented in National Conference on Science and Technology: organize by ISCA: CHAPTER Haridwar, Gurukula Kangri University, Haridwar (Uttarakhand) during March 19, 2023.
42. Presented a research paper entitled “The role of Cow in Vermitechnology.” in national Conference on Vedic microbiology vs modern biotechnology: Organized by faculty of life sciences, Gurukula Kangri (Deemed to be University) , Haridwar held on 27-29 March 2023.
43. Presented a research paper entitled “Consequences of urbanization and its impact on surrounding Environment.” In national Conference on Knowledge, cultural Traditions and practices of India” Organized by Gurukula Kangri (Deemed to be University), and Sponsored by Ministry of Culture, Government of India, New Delhi. Haridwar held on 29-31 March 2023.
44. Presented a research paper entitled “Assessment of the water quality of Haridwar city, Uttarakhand, India.” in 4th. International Sustainability conference on HSFEA 30-31 Oct-2023 at University of Petroleum and Energy Studies, Dehradun.
45. Presented a research paper entitled “Vermitechnology and organic farming in Uttarakhand India.” in International Seminar on Ayurveda for Health: Organized by Department of Microbiology and Microbiology, Gurukula Kangri (Deemed to be University), Haridwar held on 7-Nov. 2023.
46. Presented a research paper entitled “Problem of solid waste resources recovery from waste” in international Conference on Veda Vijnana and Sanskriti Mahakumbha: Organized by Organized by Gurukula Kangri (Deemed to be University), and Sponsored by Ministry of Culture, Government of India, New Delhi. Haridwar is held on 23-25 Dec. 2023.
47. Presented a research paper entitled “The impact assessment of solid waste on riverbank pollution and aquatic biodiversity” in Global Summit on challenges &

opportunities in the Himalayan region on Himalaya Calling: UPES, Dehradun is held on 10th Sep. 2024.

Annexure 3: List of Training Programme Attended

1. Attended One Week Training Programme on “Fruits and Vegetables Conservation and Preservation” organized by Centre for Technology and Development (A Society for Economic and Social Studies, New Delhi), Field Station (UCOST-TRC), Sahaspur (Dehradun) during 13-19 October, 2008.
2. Attended One Day Training Camp on Haridwar Kumbh Mela-2010 organized by Sanskrit Dev University, Uttarakhand on 20 December, 2009.
3. Attended Regional Training Workshop on “Factoring Environmental Flows into Integrated Water Resources Management” organized by National Institute of Ecology, New Delhi jointly with Central Inland Fisheries Research Institute (ICAR), Barrackpore and supported by Cap-Net, Pretoria in Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 06-11 December, 2012.
4. Attended a Training Programme on “Advanced Experimentations” organized by Department of Pharmaceuticals Sciences Faculty of Medical Sciences & Health Gurukula Kangri University, Haridwar (Uttarakhand) during June 20-30 2014.
5. Attended Saksham –IT Champion Training program at Gurukula Kangri University, Haridwar (Uttarakhand) during 22-23, September 2017.

Annexure 4: List of Workshops Programme Attended (38)

- 1 Attended National Environmental Awareness Workshop on “Solid Waste Management” sponsored by DST-FIST & UGC-SAP and organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) on 10 April, 2007.
- 2 Attended One Day Workshop on “Untrained NSS Programme Officers Training Workshop” organized by Gurukula Kangri University, Haridwar (Uttarakhand) on 21 September, 2008.

- 3 Attended One Day Workshop on “Fruits and vegetables preservation and processing training programs for entrepreneurship development, Sponsored by Training Workshop” organized by Society for Economic and Social studies, New Delhi, Held on 13-19/10/2008.
- 4 Attended One Day Workshop on “Untrained NSS Programme Officers Training” organized by Uttarakhand Sanskrit University, Haridwar and Gurukula Sanskrit Mahavidyalaya, Haridwar (Uttarakhand) on 20 August, 2009.
- 5 Attended One Day Workshop on “Voluntary Blood Donation” organized by Uttarakhand State AIDS Control Society and Directorate, Medical Health & Family Welfare, Uttarakhand on 10 September, 2009.
- 6 Attended One Day Workshop on “Blood Donor motivation programme” organized by Uttarakhand State AIDS Control Society and Directorate, Medical Health & Family Welfare, Uttarakhand at center point hotel Rookie 21th December 2010
- 7 Attended National Workshop on “Biodiversity: Measurement, Assessment and Conservation” sponsored by University Grant Commission, New Delhi held at Maharishi Dayan and College, Sri Ganganagar (Haryana) during 21-23 February, 2012.
- 8 Attended National Workshop on “Taxonomic Keys and Identification Tools for Different Groups of Flora and Fauna” sponsored by Uttarakhand State Council for Science and Technology (UCOST), Dehradun and organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 29 October-03 November, 2012.
- 9 Attended National Workshop on “Factoring environmental flows into irrigated water resources management ” organized by the National Institute of Ecology New Delhi jointly by the Central Inland Fisheries Research Institute (ICAR), Barrackpore, supported by CAP-NET-PRETPRIA at the Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 6 to 11 December, 2012.
- 10 Attended National Workshop on “Recent Trends in Atmospheric and Environmental Sciences” organized by Department of Physics in collaboration

- with Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 4-5 April, 2014.
- 11 Attended Workshop on “Application of Remote Sensing and GIS in Water Resources Management” sponsored by Uttarakhand State Council for Science and Technology (UCOST) & DOON UNIVERSITY, Dehradun and organized by Uttarakhand Space Application Center (USAC), Dehradun, 4 -5 June 2014.
 - 12 Attended two Week workshop on “environmental studies” conducted by Indian institute of technology of Bombay from 2- 12 June 2015 (this workshop was held under the national mission on education through ICT (MHRD)).
 - 13 Attended One Day Workshop on “Modern Analytical Techniques in Environmental Science” organized by School of Environment & Natural Resources, Doon University, Dehradun (Uttarakhand) on May 17th, 2016.
 - 14 Attend a workshop on “Saksham-IT Champion Training Programs” organized by Gurukula Kangri University, Haridwar (Uttarakhand) during 22-23, 09, 2017.
 - 15 Attended National Workshop on “Research methodology in science & technology (multi-disciplinary)” sponsored by UCOST, Dehradun and organized by Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) on October 04-13, 2018.
 - 16 Attend a workshop on “Myth and Reality of Drinking Water Treatment” organized by University of Petroleum and Energy Studies, Dehradun on 15 November 2019.
 - 17 Attend a workshop organized by DST and ACS at UCOST Dehradun on 25 November 2019.
 - 18 Attended a workshop on “Academic Writing and Research Ethics” organized by Faculty of Management Studies and IPR Cell, Gurukula Kangri Vishwavidyalaya Haridwar on 25 February 2020.
 - 19 Attended one-week National Workshop on Biodiversity and Ecosystem Health Assessment of Upper Ganga Basin organized by Department of Zoology and Environmental Sciences, Gurukula Kangri (Deemed to be University), Haridwar from 22-02-2021 to 26-02-2021(1 Week) sponsored by (ISTE STTP by ICT (MHRD))

- 20 Attended a national workshop on “Ecosystem Restoration in Himalayan region for sustainable livelihood” organized by Department of Zoology and Environmental Sciences, Gurukula Kangri (Deemed to be University), Haridwar (Uttarakhand) on June 05, 2021.
- 21 Actively participated in one-day webinar on Ecosystem Restoration by Department of Environmental Science, Graphic Era Hill University, Dehradun, India on 6-7 July 2021.
- 22 Actively participated in one-day webinar on Culture and tradition in harmony with Nature by Department of Environmental Science, Graphic Era Hill University, Dehradun, India on 16 July 2021.
- 23 Participated in one-day webinar on Himalayan Day by Department of Environmental Science, Graphic Era Hill University, Dehradun, India held on 7 Sept 2021.
- 24 Attend a two-day workshop in online mode on “Remote Sensing & GIS Fundamentals” organized by EDvantage India resources Private Limited in collaboration with GeoLearning Point on 15 and 16 September 2021.
- 25 Participated in five days workshop on Application of Research Techniques in SPSS A hands on Approach by Department of PG Studies in Commerce & Research Centre, K.L.E. Society’s S.Nijalingappa College conducted on 13th to 17th September 2021.
- 26 Completed two days workshop on the theme “RS & GIS Application in Biodiversity Conservation and Management” in online mode , organized by the Department of Wildlife Sciences , Aligarh Muslim University , Aligarh ,Uttar Pradesh From 17 September 2021 to 18 September 2021.
- 27 Participated in one day’ workshop on the occasion of world wetland day by department of Zoology and Environment Science, Gurukula Kangri (Deemed to be University), Haridwar conducted on 02nd Feb. 2022.
- 28 Participated in five days workshop on Data Analysis with SPSS by Faculty of management Studies and Department of management studies , Gurukula Kangri (Deemed to be University) , Haridwar conducted on 21th to 25th February 2022.

- 29 Participated in two days national workshop on “Techniques of solid waste management with reference of Swachh Bharat” by Faculty of Science , Motherhood University, Roorkee, Distt. Haridwar conducted on 26th to 27th February 2022.
- 30 Participated in six days national workshop on “Research Methodology, publication and ethics (RMPE)” organized by Department of Physics & IQAC , Gurukula Kangri (Deemed to be University) , Haridwar in collaboration with Uttarakhand science education and research Center(USERC) conducted from 25th to 30th March 2022.
- 31 Participated in a two days’ workshop on world Environment day by department of Zoology and Environment Science, Gurukula Kangri (Deemed to be University) , Haridwar conducted on 04th to 05th June 2022.
- 32 Participated in one day’ workshop on the occasion of National technology day by department of Zoology and Environment Science, Gurukula Kangri (Deemed to be University), Haridwar conducted on 11th May 2023.
- 33 Participated in one-day online workshop titled Water Quality studies using Hyperspectral Remote Sensing for the Indian Coastal and Inland Waters, conducted on 05-08-2022 by IIRS Dehradun.
- 34 Participated in one week (six days) national workshop on “Science communication and Research Methodology,” organized by Department of zoology and Environmental science , Gurukula Kangri (Deemed to be University) , Haridwar in collaboration with and sponsored by nation council for science & technology communication DST Govt of India conducted from 12 to 17^h December 2022.
- 35 Participated in one-day workshop entitled Water Quality and its Interlinkages with sustainable Development, conducted on 23-05-2023 by Department of water Resources and management, IIT Roorkee and Regional Coordinating Institute, Unnat Bharat Abhiyan, IIT Roorkee.
- 36 Participated in one-day orientation workshop conducted on 2-09-2023 by Department of water Resources and management, IIT Roorkee and Regional Coordinating Institute, Unnat Bharat Abhiyan, IIT Roorkee.

- 37 Participated in one-day workshop entitled Project Swachh Sustainable Waste Management and Community Health Initiative in Haridwar Dissemination Workshop, conducted on 5-07-2024 by Project Swachh in partnership with Nagar Nigam, Haridwar.
- 38 Participated in one-day orientation workshop conducted on 07-09-2024 by the Regional Coordinating Institute, Unnat Bharat Abhiyan, IIT Roorkee.

Program organized

1. As organizing secretary organized an International Conference of World Congress for Man and Nature “Global Climate & Biodiversity Conservation in the Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 11-13 November, 2011.
2. As a member organized National Conference on Status of Environment and Biodiversity: RIO + 20 and Role of Space Organized in the Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 02-03 November, 2012.
3. As organizing secretary organized work shop on “Our Himalayas: environmental challenges and solutions” on the occasion of Himalayan day organized under the auspices of Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar (Uttarakhand) during 9th September, 2015.
4. As organizing secretary organized work shop on “Impact of Ozone Depletion on water resources” on the occasion of International Ozone Day organized under the Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) during 16 September, 2016.
5. As organizing secretary organized work shop on “Aapada Prabandhan Chintanavam Goraeya Sanrakshan Abhiyan” on 20 March 2017 in Department of Zoology and Environmental Sciences at Gurukula Kangri Vishwavidyalaya, Haridwar.
6. As Coordinator in workshop on International Ozone Day “Effect of ozone on earth’s Environment & Control Measures” on 16 September, 2017 in Department

of Zoology and Environmental Sciences at Gurukula Kangri Vishwavidyalaya, Haridwar.

7. As a member of oral/ poster presentation Committee in workshop on International Ozone Day “Effect of Ozone on earth’s Environment & Control Measures” on 16 September, 2017 in Department of Zoology and Environmental Sciences at Gurukula Kangri Vishwavidyalaya, Haridwar.
8. As a member in organizing committee in XXVI International Bioacoustics Congress in Haridwar (Uttarakhand) during 08-13 October, 2017.
9. As Convener organized a National workshop on “Ecosystem Restoration in Himalayan region for sustainable livelihood” organized by Department of Zoology and Environmental Sciences, Gurukula Kangri (Deemed to be University), Haridwar (Uttarakhand) on June 05, 2021.
10. Organized world sparrow day in the Department of Zoology and Environmental Science, Gurukula Kangri University, Haridwar (Uttarakhand) on 20 March 2021.
11. Organized National Symposium on Avian Biology and chaired one technical session in the Department of Zoology and Environmental Science, Gurukula Kangri University, Haridwar (Uttarakhand) on 30-31st March 2021.
12. National Workshop on the Occasion of World Wetland Day, on 2nd February, 2022 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
13. National Workshop on the Occasion of World Technology Day, on 11th May, 2022 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
14. National Workshop on the Occasion of World Environment Day, on 4th - 5th June, 2022 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
15. Organized one-week National workshop on “Science Communication and Research Methodology” in Department of Zoology and Environmental Science, G.K. (Deemed to be University), Haridwar from 21-26 Nov 2022.
16. Organized Environment Awareness Workshop on Biodegradable Solid Waste Management and Vermi Farming for Sustainable Environment 5th June 2023 on

- the Occasion of World Environment Day, organized as a convenor, Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand,
17. As Convener organized a National workshop on Vedic microbiology and Modern Biotechnology 27th March to 29th March” organized by faculty of life science Gurukula Kangri (Deemed to be University), Haridwar (Uttarakhand) on march 2023.
 18. As Co-Convener organized a National workshop on International Ozone Day Entitled “Ozone For Life” on 16 September 2024, organized by Eco-Club, Green Audit Cell & Department of Zoology and Environmental science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand, Bharat.

Other activities

1. Organized ten days’ camp of students at Gurukula Kangri village, Haridwar as NSS Programme Officer.
2. Organized one-day camp of students at Gurukula Kangri village, Haridwar as NSS Programme Officer.
3. Indian Medical Association awarded an appreciation letter in recognition of the outstanding voluntary services in the field of blood donation, blood group testing, and nation building and community services.
4. Organized one-day camp and other activity camps of students in Haridwar as NCC Officer.
5. Organized various voluntary blood donation camps as a representative of Gurukula Kangri University with Uttarakhand State AIDS Control Society and Directorate, Medical Health & Family Welfare, Uttarakhand.
6. Worked as, a sector magistrate in election duties MLC of Uttarakhand 2017.
7. Organized a one-day workshop on Himalayan day at Department of zoology and environmental Science, Gurukula Kangri Vishwavidyalaya, Haridwar as organizing secretary on 9 September 2018.
8. Organized Ten Days National Workshop as an Executive Committee Members on “Research methodology in science & technology (Multi-disciplinary)” sponsored

- by UCOST, Dehradun and Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) on October 04-13, 2018.
9. Successfully completed three MLC election (voting duty and counting duty) duties as Presiding Officer.
 10. Active Member of Local Committees of different universities such as sports selection, election and admission etc.
 11. Practical Examinee.
 12. Presently working as an active proctorial board member in the university campus.
 13. Presently working as Hostel Warden of Pandit Gurudut Vidyarathi hostel of Gurukula Kangri (Deemed to be University), Haridwar from Dec 2017 to till date.
 14. Successfully completed 2022 Election duty in as Executive Magistrate in 35 Gramin Haridwar.
 15. Certified Yoga Volunteer by the The Yoga Certification Board under voluntary certification of Yoga professionals Ministry of AYUSH , Govt of India from 30Oct 2022 to 290 Oct 2027.
 16. Successfully completed three MLC election (voting duty and counting duty) duties as Presiding Officer.
 17. Active Member of Local Committees of different universities such as sports selection, election and admission etc.
 18. Practical Examinee.
 19. Presently working as an active proctorial board member in the university campus.
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 21. Successfully completed 2022 Election duty in as Executive Magistrate in 35 Gramin Haridwar.
 22. Certified Yoga Volunteer by the The Yoga Certification Board under voluntary certification of Yoga professionals Ministry of AYUSH , Govt of India from 30Oct 2022 to 290 Oct 2027.

INVITED LECTURES

1. Invited speaker in Training Program on Advanced Experimentations organized by Department of Pharmaceuticals Sciences Faculty of Medical Sciences & Health Gurukula Kangri University, Haridwar (Uttarakhand) during June 20-30 2014.
2. Invited lecture one-day national seminar / workshop on Environmental Awareness E-waste management organized by university of petroleum and energy studies Dehradun (Uttarakhand) on 4th April 2015.
3. Invited key note speaker in national conference on recent advances in sciences, technology and management held in Phonics group of institutions, Roorkee during 29-30 April 2017.

Annexure 1: List of Research Paper Published (42)

1. Malik, D.S., Bharti, P.K., **Kamboj, N.**, and Yadav, R. (2007). Quantification of Heavy Metals Migration in Ground Water Regime Due to Discharge of Textile Industrial Effluents in Panipat Area, Haryana. *Pollution Research*, 26(4): 123-125.
2. **Kamboj, N.**, Chopra, A.K., Malik, D.S. and Juyal, G.P. (2010). Watershed Characteristics of Shiwalik Torrents at Sabhawala in Doon Valley. *Environment Conservation Journal*, 11(1&2): 115-118.
3. **Kamboj, N.** (2010). Effects of Vegetative Barriers for Channelization of Shiwalik Torrent at Sabhawala in Doon Valley. *Environment Conservation Journal*, 11(3): 99-102
4. **Kamboj, N.** (2010). Seasonal Hill River Problems and Their Bio-Engineering Remedial Measures in Shiwalik Himalayas. *Environment Conservation Journal*, 11(3): 171-176.
5. Sharma, V., **Kamboj, N.**, and Joshi. B.D. (2011). A Study on Planktonic Components of River Yamuna. *Environment Conservation Journal*, 12(1&2): 49-51.
6. **Kamboj, N.**, Pandey, A., Shoaib, M. and Kumar, R. (2012). Environmental Impact Assessment of Illegal Ganga Mining at Kangri Village, District Haridwar (Uttarakhand) India. *Journal of Sustainable Environmental Research*, 1: 67-71.

7. **Kamboj, N.** (2012). Evaluation of Some Water Quality Parameters of River Ganga during Kanwer Mela-2011 at Haridwar, India. *Journal of Sustainable Environmental Research*, 1(2): 125-128.
8. **Kamboj, N.** (2012). Physico-chemical and Metallic Contamination Analysis of Underground Water in SIDCUL Industrial Area, District Haridwar (U.K.), India. *Journal of Sustainable Environmental Research*, 1(2): 211-216.
9. **Kamboj, N., Singh, J., Pandey, C.P. and Aswal, R.S.** (2013). Physico-chemical Parameters of Industrial and Domestic Wastes at SIDCUL Area, Haridwar (Uttarakhand). *Journal of Sustainable Environmental Research*, 2(1): 125-131.
10. **Kamboj, N., Kumar, R. and Aswal, R.S.** (2013). Impact Assessment of Road Development Project on Flora and Fauna Recorded from Narshan to Dehradun (Uttarakhand) India. *Environment Conservation Journal*, 14(1&2): 81-86.
11. **Kamboj, N. and Choudhary, M.** (2013). Impact of Solid Waste Disposal on Ground Water Quality near Gazipur Dumping Site, Delhi, India. *Journal of Applied and Natural Science*, 5(2): 306-312.
12. Choudhary, M., **Kamboj, N.,** and Paul Chinmoy (2014). Potable water is a serious Environmental issue: A special study on Umiam area, of RI-Bhoi District, Meghalaya, India. *International Research Journal of Environmental Sciences*, 3(9): 37-42.
13. **Kamboj, N., Kumar, S. and Chaubey, A.K.,** (2015) Assessment of Physico-Chemical Parameter of Solani River at Roorkee, Uttarakhand, India. *International Journal of Current Research*, 7(6): 16670-16673.
14. **Kamboj, N., Chaubey, A.K., Kumar, S. and Parasher, K.P.** (2015) Quality Assessment of Municipal supplied water for drinking purpose, District Haridwar, Uttarakhand, India. *Journal of Global Biosciences*, 4(5): 2375-2379, (ISSN 2320-1355).
15. **Kamboj, N. and Aswal, R.S.** (2015). Suitability of Ganga Canal Water for Drinking Purpose at Haridwar, Uttarakhand, India, *Journal of Environmental and Applied Bioresearch*, 03(03): 137 - 141
16. **Kamboj, N., Rani, A., Bharti, M., Kamboj, V. and Sharma, S.** (2016). Assessment of physiochemical Characteristics of ground water, Roorkee (Uttarakhand), India.

International Journal for Environmental Rehabilitation and Conservation, 07(1): 94-99.

17. **Kamboj, N.**, Kamboj, V., Bharti, M. and Sharma, S. (2016). Productive assessment of *Pisum sativum* (l.) by using organic fertilizers. *Environment Conservation Journal*, 17(3): 79-83.
18. **Kamboj, N.**, Bharti, M., Kamboj, V., Rani A. and Sharma, S. (2016). A comparative study of physico-chemical and bacteriological parameters of three different ritual bathing Ghats of Ganga River in India. *ESSENCE- International Journal for Environmental Rehabilitation and Conservation*, 6 (2): 46-52.
19. **Kamboj, N.**, Aswal, R.S. and Singh, P. (2017). Occurrence of metals in Ganga canal water at Haridwar (Uttarakhand), India: A case study. *Archives of Agriculture and Environmental Science*, 2(2):119-123.
20. **Kamboj, N.** and Pandey, N. (2017). Spatial distribution of solid waste disposal sites in Allahabad city, Uttar Pradesh, India using GIS approach. *Archives of Agriculture and Environmental Science*, 2(4): 357-360, DOI: 10.26832/24566632.2017.020420.
21. **Kamboj, N.**, Matta, G., Bharti, M., Kumar, A., Kamboj, V. and Gautam, R.K. (2017). Water quality categorization using WQI in rural areas of Haridwar, India. *ESSENCE- International Journal for Environmental Rehabilitation and Conservation*, 8(2): 108-116.
22. Kamboj, V., **Kamboj, N.** and Sharma, S. (2017). Environmental impact of River Bed Mining- A Review. *International Journal of Scientific Research and Reviews*, 7(1): 504-520.
23. **Kamboj, N.**, Sharma, S. and Kamboj, V. (2018). Study of Ground Water Quality in an Active Riverbed Mining Area in Mohand Rao Watershed, Haridwar (Uttarakhand), India. *International Journal of Current Research in Life Sciences*, 7(3):1410-1414.
24. **Kamboj, N.** and Bharti, M. (2018). Impact of Different Land Uses on Soil Characteristics in Ranipur Rao Watershed in Haridwar, District, Uttarakhand. *International Journal of Creative Research Thoughts*, 6(1): 1147-1154.
25. **Kamboj, N.**, Aswal, R.S., Singh, P. and Dobhal, R. (2018). Evaluation of Physico-chemical Characteristics of Ganga Canal at Haridwar. *Asian Journal of Water*,

- Environment and Pollution*, 15(3): 125-133. DOI 10.3233/AJW-180051. (Scopus Index: 0.6)
26. Sharma, S. and **Kamboj, N.** (2019). Impact of River Bed Mining on Floral Diversity in Mohand Rao Watershed of Haridwar Region (Uttarakhand), India. *Journal of Emerging Technologies and Innovative Research (JETIR)*, 6(1): 13-26.
 27. **Kamboj, N.** and Kamboj, V. (2019). Morphometric and meristic study of four freshwater fish species of river Ganga. *Indian Journal of Animal Science*, 89(4): 120-123 (SCI and Scopus Indexing; Impact Factor: 0.5 (JCR)).
 28. **Kamboj, N.** and Kamboj, V. (2019). Water Quality Assessment using overall index of Pollution in riverbed-mining area of Ganga-River Haridwar, India. *Water Science*, 33 (1): 65-74. (Taylor Francis IF 2.43)
 29. Bharti, M. and **Kamboj, N.** (2020). Occurrence and Diversity of mycofloral population in soil of two different land use types in Haridwar region (Uttarakhand), India. *Journal of advanced scientific research*, 11(1): 208-214.
 30. Kamboj, V. and **Kamboj, N.** (2020). Spatial and temporal variation of zooplankton assemblage in the mining impacted stretch of Ganga River, Uttarakhand, India. *Environmental Science and Pollution Research*, 27: 27135–27146, DOI 10.1007/s11356-020-09089-1. (JCR IF= 4.223, SCI and Scopus Index)
 31. **Kamboj, N.**, Kamboj, V. and Sharma, A.K. (2020). Length-weight Relationship of Selected Fish Species at Mining Bed Stretch of River Ganga at Haridwar. *Annals of Agri-Bio Research*, 25 (2): 251-254 (Scopus Index: 0.3)
 32. Bisht, A., **Kamboj, N.**, Kamboj, V. and Bisht, A. (2020). A review on the role of emerging anthropogenic activities in environmental degradation and emphasis on their mitigation. *Archives of Agriculture and Environmental Science*, 5(3): 419-425, <https://dx.doi.org/10.26832/24566632.2020.0503025>.
 33. **Kamboj, N.**, Pandey N., Kamboj, V., Bisht A. and Trivedi, B. (2021). Multivariate and statistical variation of water quality of various irrigation resources in Shivalik region of Himalaya, India. *Annals of Agri-Bio Research*, 25 (2): 251-254 (Scopus Index IF: 0.28).
 34. Kamboj, V., **Kamboj, N.**, Sharma A. K., Bisht A. (2021). Phytoplankton communities as bio-indicators of water quality in a mining-affected area of the river

- Ganga, Haridwar, India. *Energy, Ecology and Environment*. Springer, 6(6).<https://doi.org/10.1007/s40974-022-00238-5> .(SCI Scopus ,Springer cite score-3.9)
35. Pandey, N., **Kamboj, N**, Bisht, A, Kamboj, V. and Kumar, A. (2022). Qualitative Assessment of Water Resources Using Water Quality Index in Lower Shivalik Himalaya Region, Uttarakhand, India. *Ecology, Environment & Conservation*, 28 : S426-S433. No.: <http://doi.org/10.53550/EEC.2022.v28i03s.061>.
 36. Kamboj, V., **Kamboj, N.**, Sharma, A.K. and Bisht, A. (2022). Fish Diversity Associated with Environmental Parameters in Impacted Area of Ganga River, India. In: Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, <https://doi.org/10.1007/s40011-022-01393-9>.
 37. **Kamboj, N**, and Pandey, N. (2022). Consequences of Soil Quality on Crop Yield: An Update. *Indian Journal of Ecology*. 49(4): 1406-1416. <https://doi.org/10.55362/IJE/2022/3678>.
 38. Bisht, A., **Kamboj, N.** and Kamboj, V. (Nov, 2022). Groundwater Quality and Potential Health Risk Assessment in the Vicinity of Solid Waste Dumping Sites of Quaternary Shallow Water Aquifers of Ganga Basin. *Water Air Soil Pollution*. 233, (12). <https://doi.org/10.1007/s11270-022-05954-6>. (Springer, IF :2.9)
 39. Bahukhandi, K. D., Kushwaha, A., Goswami, L., Bhan, U., Kamboj, V., **Kamboj, N.** & Sharma, B. (2023). Hydrogeochemical Evaluation of Groundwater for Drinking and Irrigation Purposes in the Upper Piedmont Area of Haridwar, India. *ACS ES&T Water*.
 40. V. Sharma, P. Singh, B. Trivedi, **N. Kamboj**, A. Bisht, N. Pandey, (2023) Assessment of Iron Biosorption Potential by Live and Dead Biomass of *Bacillus subtilis* (MN093305) from Aqueous Solution, *Indian J Microbiol*. (Jan–Mar 2024) 64(1):153–164, <https://doi.org/10.1007/s12088-023-01144-y>
 41. Bisht, A., Kamboj, V., **Kamboj, N.**, Bharti, M., Bahukhandi, K. D., and Saini, H. (2024). Impact of solid waste dumping on soil quality and its potential risk on human health and environment. *Environmental Monitoring and Assessment*, 196(8), 763. <https://doi.org/10.1007/s10661-024-12914-6>

42. Kumar, V., Saini, H., Bisht, A., Kumar, P., Bahukhandi, K. D., and **Kamboj, N., Kumar. A.** (2024). Impact assessment of solid waste dumping sites on soil and groundwater quality in Haridwar district, Uttarakhand, India. *Environment Conservation Journal*, 25(3), 783-794.
<https://doi.org/10.36953/ECJ.27302813>

Annexure 5: List of Books (07)

1. Book entitled “Paryavarniya Aadyan (Hindi version)” published by Pratibha Prakashan, Dehradun.
2. Book entitled “Environmental Studies” published by Pratibha Prakashan, Dehradun.
3. Book entitled “A text book of Environment and Ecology” published by Savera Publishing House, New Delhi; ISBN: 81908080811-7.
4. Book entitled “Environmental instrumentation in laboratory analysis method” published by Kiran Offset Printing Press, Haridwar UK.
5. Edited Book entitled “Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies” published by Agro Environ Media, Haridwar; ISBN: 978-81-942017-4-8 (e-book), 978-81-942017-3-1 (Paperback); DOI: 10.26832/aesa-2020-aepm.
6. Edited Book entitled “Biodiversity: Status and Conservation Policies”, published by Agro Environ Media, Haridwar; ISBN: 978-81-954996-4-9 (E-book), 978-81-954996-2-5 (Paperback); DOI: 10.26832/aesa-2021-bdcp.
7. Edited Book entitled “Environmental Pollution and Natural Resource Management” published by Springer; ISSN2524-342X, ISSN2524-3438(e-book); DOI: 10.1007/978-3-031-05335-1

Annexure 6: Book Chapter's published (25)

1. Multifacial application of Drug Plants (2008) edited chapter entitled “An overview of Jatropha plantation and its application” published by Daya publishing House, New Delhi; ISBN 978-8170355502: 295-299.

2. Water Pollution and Management (2012) edited chapter entitled “Watershed Management through Bioengineering Measures of Torrent at Doon Valley, Shiwalik Himalaya” published by Biotech Books, New Delhi, ISBN 978-81-7622-227-3: 298-230.PP
3. Biodiversity Conservation and Environment Management (2012) edited chapter entitled “Some Vegetative Methods as a Nature’s Tool for Controlling Soil Erosion Leading to Floods” published by Biotech Books, New Delhi, ISBN 978-81-7622-262-4: 191-198.
4. Environment Management (2013) edited chapter entitled “Soil Erosion: A Serious Threat to Degrade the Land Resources and Its Management” published by Daya Publishing House, New Delhi, ISBN 978-81-7035-822-0: 161-165.
5. Environment Health: Human Welfare in Present Scenario (2016) edited chapter entitled “Assessment of the Ground Water Quality of Roorkee City in relation to Human Health” published by ABS Books, New Delhi, ISBN 978-93-86088-822-15-4: 68-77.
6. **Kamboj, N.** and Bharti, M. (2018). Inorganic Toxicity: Aluminum. In Inorganic Toxicity: Environment & Human Health published by Lap Lambert Academic Publication, ISBN: 978-613-9-90485-3.
7. **Kamboj, N.,** and Kamboj, V. (2019). Riverbed mining as a threat to in-stream agricultural floodplain and biodiversity of Ganges River, India. In Contaminants in agriculture and environment: health risks and remediation, 1, 250-263. ISBN: 978-81-942017-0-0. DOI: 10.26832/AESA-2019-CAE-0151-019.
8. **Kamboj, N.,** Bisht, A., Kamboj, V., Pandey, N. and Bisht, A. (2020). Role of natural disasters in environmental degradation: An overview. In: Environmental Degradation: Causes and Remediation Strategies, Volume 1, Eds. Kumar, V., Singh, J. and Kumar, P., 21-35, <https://doi.org/10.26832/aesa-2020-edcrs-02>.
9. Kamboj, V., **Kamboj, N.** and Sharma, A.K. (2020). A review on general characteristics, classification and degradation of river systems. In: Environmental Degradation: Causes and Remediation Strategies, Volume 1, Eds. Kumar, V., Singh, J. and Kumar, P., pp. 47-62, <https://doi.org/10.26832/aesa-2020-edcrs-04>.

10. **Kamboj, N.**, Bisht, A., Kamboj, V. and Bisht, A. (2020). Leachate disposal induced groundwater pollution: A threat to drinking water scarcity and its management. In: Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies, Volume 1, Eds. Kumar, V., Kamboj, N., Payum, T., Singh, J. and Kumar, P., 54-76, <https://doi.org/10.26832/aesa-2020-aepm-05>.
11. Sharma, S., **Kamboj, N.** and Kamboj, V. (2020). Factors affecting watershed ecosystem: A case study of Mohand Rao watershed in Uttarakhand, India. In: Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies, Volume 1, Eds. Kumar, V., Kamboj, N., Payum, T., Singh, J. and Kumar, P., pp. 100-112, <https://doi.org/10.26832/aesa-2020-aepm-07>
12. Bharti, M., **Kamboj, N.** and Kamboj, V. (2020). Effect of untreated wastewater on soil quality: A case study in Ranipur Rao watershed in Haridwar region (Uttarakhand), India. In: Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies, Volume 1, Eds. Kumar, V., Kamboj, N., Payum, T., Singh, J. and Kumar, P., pp. 145-157, <https://doi.org/10.26832/aesa-2020-aepm-010>
13. Pandey, N., **Kamboj, N.**, Bharti, M., Kamboj, V., Sharma, S. and Bisht, A. (2020). An overview on enormous effect of hazardous wastes on water components and their management. In: Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies, Volume 1, Eds. Kumar, V., Kamboj, N., Payum, T., Singh, J. and Kumar, P., pp. 158-173, <https://doi.org/10.26832/aesa-2020-aepm-011>
14. Kamboj, V., **Kamboj, N.** and Bisht, A. (2020). An overview of water quality indices as promising tools for assessing the quality of water resources. In: Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies, Volume 1, Eds. Kumar, V., Kamboj, N., Payum, T., Singh, J. and Kumar, P., pp. 188-214, <https://doi.org/10.26832/aesa-2020-aepm-013>.

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19. Kamboj, V., Bisht, A., **Kamboj, N.**, Bharti, M. and Kumar, A. (2021). An overview of Floral Diversity of Gurukula Kangri University-An Eco-Friendly Campus. In: Biological Diversity: Status Threats and its Conservation Strategies, Eds. 1. Malik, D. S., Sharma, A. K., Sharma, A.K., and Sharma, M., JPS Scientific Publications, India, pp. 126-141.
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21. Bisht, A., **Kamboj, N.**, Bisht, A., Kamboj, V., and Bharti, M. (2022). An Intensive Approach to the Renewable Energy Recovery from Agro Waste—A Review. In: Environmental Pollution and Natural Resource , Management. Eds.

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DOI:10.1007/978-3-031-05335-1.
22. Kumar, A., **Kamboj, N.**, Kamboj, V., Bisht, A., Pandey, N., and Bharti, M. (2022). Efficient Management of Rice Straw Using Vermicomposting Technology: A Synergetic Approach of Agricultural Waste Management. In: Environmental Pollution and Natural Resource, Management. Eds. Kanchan Deoli Bahukhandi Nitin Kamboj Vishal Kamboj. Springer. pp 137-155. DOI:10.1007/978-3-031-05335-1.
 23. Pandey, N., **Kamboj, N.**, Sharma, A.K. and Kumar, A. (2022). An Overview of Recent Advancements in the Irrigation, Fertilization, and Technological Revolutions of Agriculture. In: Environmental Pollution and Natural Resource, Management. Eds. Kanchan Deoli Bahukhandi Nitin Kamboj Vishal Kamboj. Springer. pp 167-184. DOI:10.1007/978-3-031-05335-1.
 24. Bharti, M., **Kamboj, N.**, Kamboj, V., Bisht, A., and Kumar, A. (2022). Dynamics of Soil Cationic Micronutrients in Different Land Use Systems in Lower Shiwalik Region of Uttarakhand, India. In: Environmental Pollution and Natural Resource, Management. Eds. Kanchan Deoli Bahukhandi Nitin Kamboj Vishal Kamboj. Springer. pp 185-199. DOI:10.1007/978-3-031-05335-1.
 25. Kamboj, V., **Kamboj, N.**, and Bisht, A. (2022). Monitoring of Channel Morphology of Ganga River Using Remote Sensing and GIS Data. In: Environmental Pollution and Natural Resource, Management. Eds. Kanchan Deoli Bahukhandi Nitin Kamboj Vishal Kamboj. Springer. pp 201-215. DOI:10.1007/978-3-031-05335-1.

Annexure 7: List of Seminar Proceedings Published (02)

1. **Kamboj, N.** Aswal, R.S., Singh, P., and Singh, R. (2018). Chemometric Techniques: A Comparative Study of Drinking Water Sources of Dehradun and Haridwar, Uttarakhand (India). Advances in Health and Environment Safety, Springer, ISBN 9789811071218: 345-351.
2. **Kamboj N.**, Kamboj V. (2021) Sand-Gravel Mining as a Threat to Macro-benthic Assemblage and Habitat Parameters: A Case Study of River Ganga, India. In:

Siddiqui N.A., Bahukhandi K.D., Tauseef S.M., Koranga N. (eds) Advances in Environment Engineering and Management. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham. https://doi.org/10.1007/978-3-030-79065-3_35

Annexure 8: List of Awards and Appreciation (12)

1. Indian Medical Association awarded in recognition of the outstanding voluntary services in the field of blood donation, blood group testing, and nation building and community services 2009.
2. Received Appreciation award in recognition of the outstanding benevolent act of voluntary blood donation, 2012.
3. Received award of Appreciation from the president of Zoological society of India for outstanding services during 25th all India congress of zoology 2014.
4. Indian Society for Human Welfare awarded for expertise and outstanding performance in the field of Environmental Awareness and community services, 2015.
5. Uttaranchal Cheritable Hospital awarded in recognition of the outstanding performance in the field of Plantation and Environmental protection.
6. Swami Vivekananda Polytechnic was awarded in recognition of the outstanding performance in the field of Plantation and Environmental protection.
7. Received award of Appreciation from international council for man and nature ICASET 2016.
8. Received Appreciation award by University of Petroleum and Energy Studies (UPES) Dehradun in collaboration with the Springer Journal in International conference on advances in the field of Health, Safety, Fire, environment, Allied science and Engineering (HSFEA 2016) during 18-19 November, 2016.
9. Received Award of Special Recognition by National Human Rights Conservation society in recognition of the outstanding voluntary services in the field of Environmental awareness and community services 10 December 2017.
10. Received Appreciation award by University of Petroleum and Energy Studies (UPES) Dehradun in collaboration with the Springer Journal in International

- conference on advances in the field of Health, Safety, Fire, environment, Allied science and Engineering (HSFEA 2018) during 16-17 November, 2018.
11. Received award “**TEACHER OF THE YEAR 2021**” by **Hon’ble Chief Minister** Of Uttarakhand Shri Pushkar Singh Dhami, on the occasion of Teacher Day 2021(5sept 2021) in 4th Felicitation ceremony on Teachers Day in Uttarakhand Technical University, Dehradun.
 12. Received Certificate of Appreciation for excellent and untiring work during NAAC Peer Team Visit 2021 by The Vice Chancellor Prof Roop Kishor Shastri of Gurukula Kangri (Deemed to be University), Haridwar on the occasion of Republic Day(26-01-2022).
 13. Received award “**TEACHER OF THE YEAR 2022-23**” by **Hon’ble Vice-chancellor** of Gurukula kangri (Deemed to be University), haridwar on the occasion of Republic Day 2024 (26 Jan 2024) Gurukula Kangri (Deemed to be University).

Annexure 9: List of Ph.D. awarded Guidance

1. **Ravinder Singh Aswal:** Tittle “Seasonal variations in the physico-chemical and bacteriological characteristics of Ganga Canal water at district Haridwar, Uttarakhand, India” **Year of admission-2012, Year of registration after RDC-30-08-2013, Thesis Status (Awarded/Submitted) (23-09-2017), Fellowship Detail-** DST Project collaboration with UCOST, Dehradun. Co-supervisor- Prashant kumar.
2. **Manisha Bharti:** Title “Soil nutrient dynamics of different land use patterns of Ranipur Rao, Shiwalik watershed at Haridwar (Uttarakhand)” 2015 09-04-2016 Awarded (27-12-21) RGNF, UGC (New Delhi). Letter No. F1-17.1/2017-18/RGNF-2017-18-SC-UTI-30512.
3. **Shalini Sharma:** Tilte “Impact of river bed mining on ecological characteristics of Mohand Rao Watershed in the Foothills of Himalaya in district Haridwar (Uttarakhand)” 16-08-2016 01-04-2017 Awarded (20-07-2019) NA

4. **Vishal Kamboj** Impact of river bed mining on aquatic habitat in Ganga river at Haridwar (Uttarakhand) 11-08-2016 01-04-2017 Awarded (12-03-2021) DST-INSPIRE fellowship (IF 160805)
5. **Neeraj Pandey** Effect of different types of irrigational water on soil nutrient dynamics in agricultural fields of Haridwar (Uttarakhand) 29-08-2017 04-04-2018 Awarded. 04-11-2023 NA
6. **Aditi Bisht** Municipal solid waste characterization and its route optimization using Geographical information system in the city of Haridwar, Uttarakhand 16-10-2019 12-09-2020 Awarded 01/12/2023 Department Research fellowship (1 Dec 2021 –20 Oct 2022)
7. **Amrit Kumar** Study on vermicomposting of organic waste through exotic earthworm species. Date of admission 08-12-2020 21-10-2021, Pursuing, Department Research fellowship (...2022 to)
8. **Vishal Bhardwaj** Evaluation of the nutrient potential of Vermistabilized bio compost using Sewage sludge and selected plant Material. 17-10-2022, 22-05-2023 Pursing ICSSR Fellowship
9. **Himanshu Saini** Characterization of Municipal solid waste for sustainable energy generation potential: A case Study. Date of admission 20-09-2023 date of RDC 01-06-2024.
10. **Sonali Aswal** Assessment of Municipal solid waste leachate on groundwater quality Date of admission 20-09-2023 date of RDC 01-06-2024.
11. **Shalini** Assessment of microplastic pollution in the upper Ganga river basin Himalayan region, India. Date of admission 20-09-2023 date of RDC 01-06-2024.
12. **Megha Sharma** Assessment of Vermiremediation for sewage sludge and its impact on plant growth. Date of admission 20-09-2023 date of RDC 01-06-2024.

Annexure 10: List of M. Phil./ M.Sc. dissertation Thesis guidance

1. M.Sc. dissertation entitled “A Study on Solid Waste Components of Saraswati Sugar Mill, Yamuna Nagar (Haryana)” submitted by **Sandeep Kumar** in 2009.

2. M.Sc. dissertation entitled “Physico-chemical Studies of Effluents at Akums Drugs and Pharmaceutical Limited, SIDCUL, Haridwar” submitted by **Amit Mishra** in 2009.
3. M.Sc. dissertation entitled “A Comparative Study of Physico-chemical Properties of Treated and Untreated Effluent of Shivam Automobile Limited, Haridwar” submitted by **Rohit Chaudhary** in 2010.
4. M.Sc. dissertation entitled “Assessment of Physico-chemical Parameters of River Ganga in Haridwar City, Uttarakhand State, India During Kanwer Mela 2011” submitted by **Robin Singh Rathi** in 2011.
5. M.Sc. dissertation entitled “Assessment of Physico-chemical and Heavy Metal Contamination in Ground Water in SIDCUL Industrial Area, Haridwar, Uttarakhand” submitted by **Mohd. Shoaib** in 2012.
6. **Arunima Pandey** in 2012 in M. Phil. thesis entitled “Environmental Impact Evaluation of Illegal Ganga Mining with Special Reference to Shayampur Kangri, District Haridwar (Uttarakhand), India” to the C.M.J. University, Shillong, Meghalaya, submitted.
7. M.Sc. dissertation entitled “EIA of highway brodification narshan to Dehradun, Haridwar, Uttarakhand” submitted by **Retesh kumar** in 2012.
8. M.Sc. dissertation entitled “Environmental Impact Evaluation of Shiwalik Hill Seasonal River Ranipur Rao Watershed in District Haridwar, Uttarakhand, India” submitted by **Chetan Prakash Pandey** in 2013.
9. M.Sc. dissertation entitled “The Assessment of Physico-chemical Parameters of Industrial and Domestic Waste with Special Reference to Seasonal River Ranipur Rao in SIDCUL Area, Haridwar, Uttarakhand” submitted by **Jogendra Singh** in 2013.
10. M.Sc. dissertation entitled “Role of instrumentation in environmental monitoring” submitted by **Kamal Kant Sharama** in 2014.
11. M.Sc. dissertation entitled ““Irrigation Water Quality Assessment of Ganga Canal, Haridwar (Uttarakhand) India “by **Chander Kant Prasher** in 2015.
12. M.Sc. dissertation entitled ““Physico-chemical cauterization of ground water at Roorkee Region Uttarakhand by **Rakshak Jain** in 2016.

13. M.Sc. dissertation entitled “Physico-chemical characterization of Ganga Canal during Ardh Kumbh 2016 at Haridwar Uttarakhand” by **Shagun** in 2016.
14. M.Sc. dissertation entitled “Productive assessment of *Pisum sativum* by using Vermicomposting and FYM fertilizer Haridwar Uttarakhand” by **Vishal Kamboj** in 2016.
15. M.Sc. dissertation entitled “Study on Stone Crushers and their environmental impacts in Shiwalik Himalayan Watershed in District Haridwar Uttarakhand” by **Sachin Kumar** in 2017.
16. M.Sc. dissertation entitled “Study on Riverbed Mining Plan and Process of Ganga and Seasonal hill rivers Riverbed Mining in Shiwalik Himalayan Watershed in District Haridwar Uttarakhand” by **Pawan Chauhan** in 2017.
17. M.Sc. dissertation entitled “Impact of Riverbed Mining on livelihood of communities in the Banjarewala village of Sukhrao watershed, district Haridwar by **Matul** in 2018.
18. M.Sc. dissertation entitled “Influence of paper mill effulents on selected agricultural crop species: *Pisum sativum*, *Vigna radiate* & *Triticum aestivum*” by **Rajat Awasthi** in 2018.
19. M.Sc. dissertation entitled “Assessment of physico-chemical and biological properties of ice used for various purposes in Haridwar city (Uttarakhand)” by **Vivek Singhal** in 2019.
20. M.Sc. dissertation entitled “Assessment of physico-chemical characteristics of groundwater of Bahadrabad city, Haridwar (Uttarakhand)” by **Vishal Bhardwaj** in 2020.
21. M.Sc. dissertation entitled “Analysis of physicochemical parameter of waste water in FMCG company” by **Anurag Pathak** in 2020.
22. M.Sc. dissertation entitled “Impact of solid waste disposal on ground water quality in the waste dumping site of Haridwar city, Uttarakhand” by **Himanshu Saini** in 2021.
23. M.Sc. dissertation entitled “Impact of solid waste disposal on soil quality in the waste dumping site of Haridwar city, Uttarakhand” by **Shashank Sharma** in 2021.

24. M.Sc. dissertation entitled “Assessment of groundwater quality of district Bijnor (Uttar Pradesh)” by **Bhartendu** in 2022.
25. M.Sc. dissertation entitled “Physico-chemical characterization of Vermicompost processed by earthworm species *Eisenia fedita* of garden waste” by **Sankit Kumar** in 2022.
26. M.Sc. dissertation entitled “Evaluation of physico-chemical status of kitchen waste Vermicompost processed by earthworm” by **Deepanshu** in 2022.
27. M.Sc. dissertation entitled “Impact Assesment of Haridwar Nagar Nigam Dumping Site on The Ground Water Quality of Sarai Village, Haridwar District, Uttarakhand, India” by **Amit Chauhan** in 2023.
28. M.Sc. dissertation entitled “Impact Assessment of Sidcul Open Dumping Site on The Ground Water Quality of Industrial Area, Haridwar District, Uttarakhand, India” by **Rahul Gandhi** in 2023.
29. M.Sc. dissertation entitled “Status of groundwater vat Roorkee region Uttarakhand” by **Bhanu Pratap Singh** in 2024.
30. M.Sc. dissertation entitled “Physico-chemical characterization of waste water treatment by ETP of Acme Industries Bhagwanpur, Haridwar, Uttarakhand by **Vaish Ali** in 2024.
31. M.Sc. dissertation entitled “Assessment of Hydro Geo Chemistry of Groundwater water Quality Using WQI at Upper Ganga Canal, Haridwar by **Vaibhav Saini** in 2024.

Annexure 11: List of Media Interactions, Print Media

1. News article published in **Times of India** on Apr 17, 2018, entitled “Mining in Haridwar leaves groundwater unfit for drinking: Study” by Ruchika Uniyal quoting the research of watershed and natural resource management lab. <https://timesofindia.indiatimes.com/city/dehradun/mining-in-haridwar-leaves-groundwater-unfit-for-drinking-study>.

2. News article published in **Amar Ujala** on May 11, 2018 entitled “Khanan se badal rahai ganga ki bahav ki disha” quoting the research of watershed and natural resource management lab.
3. News article published in **Amar Ujala** on May 06, 2019 entitled “Mishrit kachra ban raha hai nirastikaran me badha.” In which Dr. Nitin Kamboj Gave an interview during the field visit in the Solid waste management plant Sarai.

Primary Broadcast Media

1. Interview and documentary in NEWS 18 Uttarakhand /Uttar Pradesh, broadcasted on 24 Oct 2021 regarding the vermitechnolgy and production of Vermicompost in the Bio-compost unit of Gurukula Kangri (Deemed to be University), Haridwar.