

Curriculum Vitae

**Dr. (Mrs.) Sangeeta Madan**

Assistant Professor,  
Department of Environmental Science,  
Kanya Gurukula Campus,  
Gurukula Kangri (Deemed to be University),  
Haridwar, Uttarakhand.

**Date of Birth:** 8<sup>th</sup> May 1974



**Address of Correspondence:** Dr. Sangeeta Madan, 0109, VT-2, Jurs Country, Jwalapur, Haridwar

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**Educational Qualification:** M.Sc, Ph.D. Environment Science

**Ph.D. Research Topic:** Physico-chemical and Microbiological characteristics of certain industrial effluents and their impact on seed germination, biomass and yield of some agricultural crops.

**M.Sc. Dissertation Topic:** A study of selected physico-chemical parameters of Mahalakshmi Sugar Mills Ltd. Iqbalpur, Roorkee.

**Major Areas of Interest :** Water Pollution, Vermicomposting, Air Pollution

**Research Experience :** 13 years

**Teaching Experience :** 18 years

**List of Publications**

1. Arora, S., Joshi, N., Chopra, A. K. and Prasad, G. (2003). Physico-Chemical and Microbiological characteristics of pulp and paper mill effluent and its *in vitro* effect on seed germination of some agricultural crops. *Journal of Nature Conservation*, 15(1), 107-113, ISSN: 0970-5945.
2. Arora, S., Chopra, A. K., Joshi, N., and Prasad, G. (2005). Physico-Chemical and Bacteriological characteristics of Aachal dairy mill effluent and its effects on seed germination of some agricultural crops. *Nature Environment and Pollution Technology*, 4(3), 441-444, ISSN: 2395-3454.
3. Arora, S., Joshi, N., Chopra, A. K. and Prasad, G. (2005). Influence of Star Paper Mill effluent on biomass production and yield at harvesting time of different agricultural crops. *Environmental Conservation Journal*, 6(2), 83-88, ISSN: 0972-3099.

4. Arora, S., Chopra, A. K., Prasad, G., Joshi, N. and Prasad, G. (2006). Characteristics of Mahalakshmi sugar mill effluent and its impact on seed germination on certain agricultural crops. *Journal of Applied Biosciences*, 32(1), 115-118, ISSN: 0379-8097.
5. Arora, S., Chopra, A. K., Prasad, G., Joshi, N. and Prasad, G. (2006). Physico-chemical characteristics of Doon Distillery, Doiwala Effluent and its *In-vitro* effect on seed germination of four agriculture crops. *Environment Conservation Journal*, 7(1-2), 23-27, ISSN: 0972-3099.
6. Madan, S., Bharti, T., Prashant, T. and Ashraf, J. (2009). Nutrient analysis of different types of vermicomposts and their impact on nursery grown seeds and seedlings. *Environment Conservation Journal*, 10(3), 105-108, ISSN: 0972-3099.
7. Madan, S. and Pallavi, P. (2010). Assessment of noise pollution in Haridwar city of Uttarakhand State, India during Kumbh Mela 2010 and its impact on human health. *Journal of Applied and Natural Science*, 2(2), 293-295, ISSN: 0974-9411.
8. Madan, S., Sharma, S. and Saxena, C. (2011). Effect of pressmud incorporation on physiology of *Cicer arietinum*. *Environment Conservation Journal*, 12(3), 143-148, ISSN: 0972-3099.
9. Madan, S. and Verma, N. (2011). A preliminary study on sewage quality improvement through water hyacinth (*Eichhornia crassipes*). *Environment Conservation Journal*, 12(3), 63- 66. ISSN: 0972-3099.
10. Bhatia, A., Ali, M., Sahoo, J., Madan, S., Pathania, R., Ahmed, N., and Kazmi, A. A. (2012). Microbial diversity during Rotary Drum and Windrow Pile composting. *Journal of Basic Microbiology*, 52(1), 5-15. ISSN: 1521-4028.
11. Saxena, C. and Madan, S. (2012). Evaluation of Adsorbents Efficacy for the Removal of Pollutants from Sugar Mill Effluent. *ARPJ Journal of Agricultural and Biological Science*, 7(5), 325-329. ISSN: 1990-6145.
12. Madan, S. and Saxena, C. (2012). Growth response of *Solanum melongena* in Three Different Adsorbents Irrigated with Sugar Mill Effluent. *Archives of Applied Science Research*, 4(5), 2299-2303, ISSN: 0975-508X.
13. Madan, S. and Yadav, A. (2012). Vermicomposting of Distillery sludge with different wastes by using *Eisenia fetida*. *Advances in Applied Science Research*, 3(6), 3844-3847, ISSN: 0976-8610.
14. Madan, S., Bhatia, A., Rajpal, A. and Kazmi, A. A. (2012). Maturity Assessment Of Rotary Drum And Windrow Composts in Terms of Germination Index and Enzymatic Activities. *Int. Journal of Applied Sciences and Engineering Research*, 1(3), 415- 427, ISSN: 2277-8442.
15. Madan, S., Yadav, A. and Saini, S. (2012). Physico-chemical Analysis of Selected Ground Water Samples of Pratap Nagar, Saharanpur district, Uttar Pradesh. *Journal of Sustainable Environment Research*, 1(1), 87-90, ISSN: 2278-196X.
16. Madan, S. and Pertibha (2013). Morphological Response of *Cicer Arietinum* Exposed to Paper Mill Effluent. *Journal of Environmental Biology*, 34(4), 779-782, ISSN: 0254- 8704.
17. Madan, S., Dutta, S. and Chanchal (2013). Water quality assessment of River Tons Dehradun (Uttarakhand), India. *Journal of Applied and Natural Science*, 5(1), 76-81, ISSN: 0974-9411.

18. Bhatia, A., Madan, S., Sahoo, J., Ali, M., Pathania, R. and Kazmi, A. A. (2013). Diversity of Bacterial Isolates During Full Scale Rotary Drum Composting. *Waste Management*, 33(7), 1595-1601, ISSN: 0956-053X.
19. Yadav, A. and Madan, S. (2013). Nutrient Status of Vermicompost Of Paper Mill Sludge with Different Wastes by Using *Eisenia fetida*. *European Journal of Applied Sciences*, 5(2), 62-66, ISSN: 2079-2077.
20. Madan, S., Rana, R. and Rana, N. (2013). Municipal Solid Waste Management at Muzaffarnagar City: Present Practices and Future Challenges. *Journal of Sustainable Environmental Research*, 2(1), 49-56, ISSN: 2278-196X.
21. Chanchal, Madan, S and Hussain, A. (2014). Ground Water Contamination Due to Fly Ash Disposal:A Review. *International Journal of Advanced Research in Biological Sciences*, 1(6), 237-250, ISSN: 2348-8069.
22. Bhatia, A., Rajpal, A., Madan, S. and Kazmi, A. A. (2015). Techniques to Analyze Microbial Diversity During Composting—A mini review. *Indian Journal of Biotechnology*, 14, 19-25,ISSN: 0972-5849.
23. Madan, S. and Verma, P. (2015). Assessment of Air Pollution Tolerance Index of Some Trees in Haridwar City, Uttarakhand. *Journal of Environmental Biology*, 36(3), 645-648, ISSN: 0254-8704.
24. Madan, S. and Chauhan, S. (2015). Air Pollution Tolerance Index and Anticipated Performance Index of Selected Plant Species in Haridwar City, India. *Report and Opinion*, 7(6), 32-37, ISSN: 1553-9873.
25. Madan, S. and Rathore, S. (2015). Nutrient Analysis of Compost and Vermicompost and their Impact on Growth of *Cicer arietinum*. *Report and Opinion*, 7(7), 4-8, ISSN: 1553-9873.
26. Madan, S., Singh, S. and Jauhari, R. K. (2015). Morphometric Analysis Of Freshwater Snails Along with Associated Planktonic Community at Dudhlee in Doon Valley (Uttarakhand). *Journal of Global Biosciences*, 4(6), 2604-2610, ISSN: 2320-1355.
27. Madan, S., Chanchal and Hussain, A. (2015). Physico-Chemical Properties of Groundwater Around Ash Pond of Parichha Thermal Power Plant, Jhansi, U.P. *International Journal of Research Studies in Biosciences*, 3(4), 1-4, ISSN: 2349-0357.
28. Madan, S., Chanchal and Hussain, A. (2016). Assessment of Ground Water Quality Around Ash Pond. *Asian Journal of Microbiology, Biotechnology Environmental Sciences*, 18 (1), 223-226, ISSN: 0972-3005.
29. Madan, S., Joshi, M. and Verma, C. (2016). Assessment of Ambient Air Pollution and its Impact on Biochemical Properties of Selected Plant Species in Haridwar, India. *Report and Opinion*, 8(12), 12-15, ISSN: 1553-9873.
30. Chanchal, Madan, S. and Hussain, A. (2017). Heavy Metal Contamination of Ground Water Due to Fly Ash Disposal of Coal Fired Thermal Power Plant, Parichha, Jhansi, India. *Cogent Engineering*, 3:1179243, 1-8, ISSN: 2331-1916.
31. Madan, S., Chanchal and Kaushik, N. (2017). Uptake of Chromium in Water Hyacinth (*Eichhornia crassipes*) and Its Impact on Biochemical Structure. *Environment Conservation Journal*, 18(1&2), 143-148, ISSN: 0972-3099.

32. Madan, S. and Chanchal (2017). COP for Environmental Conservation. *International Journal for Environmental Rehabilitation and Conservation*, 8(1), 205-213, ISSN: 0975-6272.
33. Madan, S., Sachan, P. and Singh, U. (2018). A Review on Bioremediation of Pulp and Paper Mill Effluent–An Alternative to Conventional Remedial Technologies. *Journal of Applied and Natural Science*, 10(1), 1-8. ISSN: 0974-9411.
34. Madan, R., Chaudhry, S., Sharma, M. and Madan, S. (2018). Determination of Water Quality Index of Indraprastha Estate region and the Vicinity Area in Delhi, India. *International Journal for Environmental Rehabilitation and Conservation*. 9(1), 204-216, ISSN: 0975- 6272.
35. Nayak, A., Madan, S. and Matta, G. (2018). Evaluation of Air Pollution Tolerance Index (APTI) and Anticipated Performance Index (API) of Some Plant Species in Haridwar City. *International Journal for Environmental Rehabilitation and Conservation*. 9(1), 1-7, ISSN: 0975-6272.
36. Sharma, D. and Madan, S. (2019). A Review on Antimicrobial Resistance with Reference to River Ganga, India. *International Journal of Research and Analytical Reviews*, 6(1), 671- 673, ISSN: 2349-5138.
37. Madan, S. and Sharma, D. (2019). Comparative Assessment of Water Quality of River Ganga in Rishikesh and Haridwar by using Comprehensive Pollution Index Method. *Pollution Research*, 38(2), 329-337, ISSN: 0257-8050.
38. Sachan, P., Madan, S. and Hussain, A. (2019). Isolation and Screening of Phenol Degrading Bacteria from Pulp and Paper Mill Effluent. *Applied Water Science*, 9(100), 1-6. ISSN: 2190-5495.
39. Sachan, P. Madan, S., Hussain, A. and Singh, U. (2019). Lab Scale Study on Characterization and Identification of Phenol Degrading Bacteria Isolated from Pulp and Paper Mill Effluent. *Biochemical and Cellular Archives*, 19(2), 4635-4641, ISSN: 0972-5075.
40. Madan, S. and Rathi, P. (2019). Effect of Glass Industry Effluent on Seed Germination and Biochemical Parameters of *Glycine max* (Soyabean). *Indian Journal of Agricultural Research*, 53(4), 468-472, ISSN: 0976-058X.
41. Madan, S., Madan, R. and Hussain, A. (2019). Physico-Chemical and Heavy Metals Characteristics of Textile Dyeing Industry Effluent of Haridwar, Uttarakhand, India. *Journal of Energy Research and Environmental Technology*, 6(4), 286-294, ISSN: 2394-1561
42. Verma, C., Madan, S. and Hussain, A. (2020). Leaching Potential of Fly Ash. *Asian Journal of Water, Environment and Pollution*, 17(2), 99-103, ISSN: 0972-9860.
43. Verma, C., Hussain, A., Madan, S. and Kumar, V. (2021) Assessment of Heavy Metal Pollution in Groundwater with respect to Distance from Ash Pond by using Heavy Metal Evaluation Index. *Applied Water Science*, 11(58), 1-6, ISSN: 2190-5495.
44. Madan, S. and Sharma, D (2021). Application of Integrated Water Quality Index (IWQI) Model and Dissolved Oxygen Saturation Percentage for Comparative Evaluation of Water Quality and Appropriacy of River Ganga at Rishikesh and Haridwar. *Rasayan J.Chem.*, 14(3), 1643-1652, ISSN: 0974-1496

#### **List of Papers Presented in Conferences/Seminars:**

1. Strategies for the Conservation of Endangered Medicinal Plants in Doon Valley. National Seminar on Medicinal plants: Conservation, Cultivation and Utilization, Department of Zoology and Environmental Sciences, Gurukula Kangri

Vishwavidyalaya, Haridwar, 9-11th March 2007

2. Global Warming: A Threat to Environment. National seminar on Threats: Global Warning to Global Warming, K.L.D.A.V.P.G. College, Roorkee, 31<sup>st</sup> March 2007.
3. Global Warming and its Impact on Environment, Agriculture and Health. National Seminar on Global warming: It's Impact on Environment, Economy, Society and Politics, S.M.J.N. (P.G.) College, Haridwar, Uttarakhand, 27-28<sup>th</sup> December 2008.
4. Impact of Aanchal Dairy mill effluent on seed germination, biomass and yield of few agricultural crops. International Conference on Recent Advances in Environmental Protection, RAEP, Department of Chemistry, St. John's College, Agra. 17-19<sup>th</sup> December 2009.
5. Effect of pressmud incorporation on physiology of *Cicer arietum*. National Seminar on Environmental Management and Biodiversity Conservation. Action for Sustainable, Efficacious Development and Awareness & International Council for Man and Nature, Omkaranand Institute of Management and Technology, Rishikesh, India. 26-27<sup>th</sup> February 2011.
6. Global Climate Change: A Trans-Boundary Problem, Its Causes, Effect and Control Strategies. World Congress for Man and Nature, "Global Climate Change and Biodiversity Conservation", Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 11-13<sup>th</sup> November 2011.
7. Nutrient Status of Vermicompost of Paper mill sludge with different wastes by using *Eisenia fetida*. International Conference on Recent Trends in Climate Change Researches vis-à-vis Biodiversity, Under "Centre of Excellence"-Government of U.P., In Collaboration with The Indian Academy of Environmental Sciences, MJP Rohilkhand University, Bareilly, 3-4<sup>th</sup> December 2012.
8. Vermicomposting of distillery sludge with different wastes by using *Eisenia fetida*. National Conference on Energy, Environment and Biotechnology Research, Mewar Institute of Management, Ghaziabad, 5-6<sup>th</sup> October 2013.
9. Water Quality Assessment of River Tons, Dehradun International Conference on Management Innovations, Faculty of Management Studies, Gurukula Kangri University, Haridwar, Uttarakhand (India), 10-12<sup>th</sup> February 2014.
10. Ground Water contamination due to fly ash disposal: A Review. International Symposium on Biodiversity: Status, Utilization and Impact of Challenging Climatic Conditions, BabaSaheb Bhimrao Ambedkar University & Indian Academy of Environmental Sciences, Lucknow, 30-31<sup>st</sup> October 2014.
11. Eco-toilets- An Asset for future generations. National Conference on "Science and Technology for Indigenous Development in India". Indian Science Congress

12. Association: Haridwar Chapter and Faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya, Haridwar at FET Campus on 28-30<sup>th</sup> September 2015.
13. Heavy Metal Contamination of Ground Water due to fly ash disposal. 3<sup>rd</sup> International Conference on Science, Technology and Management. India International Centre, New Delhi, 17<sup>th</sup> January 2016.
14. Assessment of Ambient Air Quality Through Bio-Chemical Analysis of Selected Plant Species in Haridwar. 4<sup>th</sup> International Conference on Science Technology and Management, India International Centre, New Delhi, 15<sup>th</sup> May 2016.
15. Nutrient Analysis of compost and vermicompost and their impact on growth of *Cicer arietinum*. National Conference on Science and Technology for National Development, ISCA Haridwar Chapter & Department of Chemistry, Gurukula Kangri Vishwavidyalaya, Haridwar, 20<sup>th</sup>-22<sup>nd</sup> November 2016.
16. Assessment of ambient air quality through bio-chemical analysis of selected plant species in Haridwar. 3<sup>rd</sup> International Conference on Recent Innovations In Science, Technology Management & Environment, Indian Federation of United Nations Associations, New Delhi, 18<sup>th</sup> December 2016.
17. An Overview on Vedic Concept of Water Resources and Conservation as Holistic Approach. National Vedic Seminar: Vedic Literature:-Origin of Traditional and Modern Science, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 25<sup>th</sup>- 26<sup>th</sup> February 2019.
18. An Overview on Prevalence of antimicrobial resistance in river Ganga, India. National Seminar on Innovative Approaches in Microbial Technology, Department of Botany and Microbiology, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 8<sup>th</sup>-9<sup>th</sup> March, 2019.
19. Application of Integrated Water Quality Index (WQI) Model and Dissolved Oxygen Saturation Percentage for Comparative Evaluation of Water Quality and Suitability Analysis of River Ganga at Rishikesh and Haridwar. International Conference on Emerging Trends in Sustainable Infrastructural Development, Dept of Civil Engineering & Technology, Sharda University, Greater Noida, Uttar Pradesh, 19 – 20<sup>th</sup> March, 2020
20. Comparative Study of Nutrient dynamics and Stability of Prepared Compost. 2<sup>nd</sup> International Conference on Climate Change, by BioLEAGUES Worldwide and International Society of Environmental Relationship and Sustainability (ISERS), Kuala Lumpur, Malaysia 25<sup>th</sup> -26<sup>th</sup> May 2021.

#### **Conferences Attended**

1. UGC SAP Seminar on Biodiversity of Uttaranchal State, Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 27-28<sup>th</sup> March 2006.
2. UGC SAP National Seminar on Biodiversity of Himalayan States with Special Reference to Uttarakhand, Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 18-19<sup>th</sup> March 2007.
3. National Symposium on Impact of Trends in Climate Change on Bio-diversity and Faunistic Systems. Department of Zoology and Environmental Sciences and Indian Academy of Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 19-20<sup>th</sup> February 2010.
4. National Seminar on Status of Environment and Biodiversity: Rio +20 and Role

of Space Technology, Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 2<sup>nd</sup> – 3<sup>rd</sup> November 2012.

5. National Seminar on Threats to Biodiversity and Ecosystems: Impacts of Developmental Projects and Climate Change and 25<sup>th</sup> All India Congress of Zoology, Department of Zoology and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 17-19<sup>th</sup> November 2014.

### **Workshops Attended**

1. National Workshop Awareness Programme on Solid Waste Management, Gurukula Kangri University, Haridwar, 10<sup>th</sup> April 2007
2. State Level Water Quality Training Workshop for Water Managers. WTI, DST and UCOST, Doon University, Dehradun, 24<sup>th</sup> May, 2011
3. UCOST National Workshop on Taxonomic keys & Identification Tools of different groups of flora and fauna, Department of Zoology and Environmental Sciences Gurukula Kangri University, Haridwar, Uttarakhand 29<sup>th</sup> October -3<sup>rd</sup> November 2012.
4. Workshop on Abatement of Ganga Pollution Through Plants. CSIR- National Botanical Research Institute Lucknow at Dev Sanskriti Vishwavidyalaya Shantikunj, Haridwar, 24<sup>th</sup> August 2012.
5. Workshop on Human Rights and Conservation, Gurukula Kangri University, Haridwar. 15-18<sup>th</sup> February 2013
6. National Workshop on Recent Trends in Atmospheric and Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 4-5<sup>th</sup> April 2014
7. Workshop on “Yoga and Purushartha for Integral Development”. Gurukula Kangri Vishwavidyalaya, Haridwar, 20<sup>th</sup> July 2015
8. Workshop on “Source Emission Monitoring for Parameters Notified Under Source Emission”. Pollution Control Research Institute, BHEL, Ranipur, Haridwar, 2<sup>nd</sup>-4<sup>th</sup> December 2015
9. Workshop on Patent Drafting, Filing and Processing (PDFP-2016) organized by Intellectual Property Rights Cell and Faculty of Medical Sciences and Health (FMSH) at Dept. Of Pharmaceutical Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar, 14<sup>th</sup> November 2016
10. Workshop on Effect of Ozone on Earth’s Environment and Control Measures” on International Ozone Day, Gurukula Kangri Vishwavidyalaya, Haridwar, 16<sup>th</sup> September 2017
11. Microsoft Saksham-IT Training Program, 22<sup>nd</sup>-23<sup>rd</sup> September 2017
12. Faculty Development Program on Teaching and Soft Skills, Faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 3<sup>rd</sup>-4<sup>th</sup> October 2018
13. Workshop on “Wildlife Conservation through Awareness, Wildlife Week-2018”, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 5<sup>th</sup>-6<sup>th</sup> October 2018
14. One Day Seminar on Academia Opportunity in the field of Environment Impact Assessment and Allied Sectors, Gurukula Kangri University, Haridwar, 8<sup>th</sup> March 2019 by Aseries Envirotek India Pvt. Ltd.
15. One Day Workshop on Academic writing and Publications, Department of Physics, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 20<sup>th</sup> April 2019.
16. Online Workshop on “ Biodiversity and Ecosystem Health Assessment of Upper

Ganga Basin”, Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to University), and National Institute of Hydrology, Roorkee, 22-26<sup>th</sup> February 2021.

17. Workshop on “ Ecosystem Restoration in Himalayan Region for Sustainable Livelihood”, Eco-Club, Green Audit Cell & Department of Zoology & Environmental Sciences, Gurukula Kangri (Deemed to University) Haridwar, India, 5<sup>th</sup> June 2021.

### **Lectures Delivered**

1. Delivered lecture on “Beti Bachai Beti Padhao” and “Role of youth in eradicating social evils, such as dowry and child marriage” in Orientation Program at Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 19<sup>th</sup> December 2019.
2. Guest Lecture on “Profitable Business Ideas in Solid Waste Management” at Faculty of MBA, Shri Sunshine Educational Trusts Group of Institutions, Rajkot, Gujarat, India, 20<sup>th</sup> February 2020.
3. Delivered lecture on “Solid and Sewage Waste Management” in Global Sustainability Summit-The New Normal organized by Amity Institute of Environmental Sciences and Amity Institute of Ecotoxicity and Safety Management, Amity University, Noida 3<sup>rd</sup>-5<sup>th</sup> June 2020
4. Delivered lecture on “Generation of Biogas through MSW” in “Alternate fuels” at Faculty of Engineering and Management, Gurukula Kangri (Deemed to be University), Haridwar, 21<sup>st</sup> -25<sup>th</sup> September 2020.
5. Delivered Lecture on Gender Biasness in 3<sup>rd</sup> Orientation Program of Empaneled Training Institute, Gurukula Kangri (Deemed to be University), Haridwar 11<sup>th</sup> March 2021
6. Delivered lecture on “Restoring Our Mother Earth” at Department of Environmental Science , Bioscience & IQAC I.B.(P.G.) College, Panipat, Haryana 22 April 2021
7. Delivered lecture on “Sustainable Practices for Waste Management” in Recent developments in the sustainable processes, ATAL FDP program sponsored by AICTE, 31<sup>st</sup> May 2021.

### **Other Duties**

1. Acted as Judge in Oral Contest on Science for Human Health, Department of Botany and Microbiology, Gurukula Kangri Vishwavidyalaya, 28<sup>th</sup> February 2017.
2. Reportier of Session, National Seminar on Innovative Approaches in Microbial Technology, Department of Botany and Microbiology, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, 8<sup>th</sup>-9<sup>th</sup> March 2019.
3. Chaired Session in National Seminar on “Entrepreneurship Development in Current Indian Business Scenario”, School of Management Studies, Punjabi University, Patiala, 31<sup>st</sup> January and 1<sup>st</sup> February 2020.

### **Books Published:**



Sangeeta Madan and Pankaj Madan (2009-10): Global Encyclopaedias of Environment Science, Technology and Management (Vol.1&2) published by Global Vision Publishing House, New Delhi.

### **Chapters Published in Books:**

1. Public health aspects of wastewater expulsion on land. In: Water Pollution and Management. Biotech Books, New Delhi, 2011
2. Global Climate Change: A Transboundary Problem, its causes, effects and control strategies. In: Environmental Pollution: Assessment and Control Techniques. Biotech Books, New Delhi, 2013
3. Impact on Climate Change due to Global Warming. In: Environmental Pollution: Assessment and Control Techniques. Biotech Books, New Delhi, 2013
4. Global Warming: An Inconvenient Truth. In: Global Recession and Climate Change in India. Radha Publications 2013
5. Wastewater: An Asset or Liability? In: Water Digest, 9(3),8-14, ISSN: 2349-1337, 2014
6. An Overview on the Contribution of Microbial Diversity in the Preparation of Alcoholic and Non-alcoholic Beverages. In Microbes – Fermented Food and Human Health. Krishna Publication House, Gujarat 2021
7. Removal Of Heavy Metals From Water By Adsorption. In Heavy Metals - Their Environmental Impacts and Mitigation, IntechOpen, 2021

### **Society Membership**

1. Journal of Nature Environment and Pollution Technology
2. Journal of Environment Conservation Journal
3. Journal of Applied and Natural Science
4. Indian Science Congress Association (ISCA)
5. **Young Scientist Award:** By Action for Sustainable Efficacious Development and Awareness (ASEA) in 2008

### **Courses Attended:**

1. 4 Week Orientation Course at Punjab University, Chandigarh, 1<sup>st</sup> – 28<sup>th</sup> Dec. 2007
2. 3 Weeks Refresher Course at Punjabi University, Patiala, 8<sup>th</sup>– 28<sup>th</sup> Oct. 2010
3. 4 Weeks Refresher Course at JNU, Delhi, 2<sup>nd</sup> -28<sup>th</sup> April 2012
4. Short Term Course on Quality Management in Higher Education,HRDC, Punjab University, Chandigarh, 14<sup>th</sup> -20<sup>th</sup>February 2017
5. UGC- Sponsored Short-Term Course in MOOCs and OER at Kumaun University, Nainital, Uttarakhand, 8<sup>th</sup> – 14<sup>th</sup> June 2018

**No. of Students under Supervision for Ph.D. : 4**

**No. of Students awarded Ph.D. : 5**

1. Akansha Bhatia (2012)

(Physico-chemical characteristics and microbial communities of domestic solid wastes in Rotary Drum composting)

2. Charu Saxena (2014)  
(Efficacy of adsorbents for the removal of pollutants from industrial effluents and their impact on *Capsicum annum* and *Solanum melongena*)
3. Anjali Yadav (2015)  
(Biodegradation of industrial sludge by vermicomposting and its assessment only *Lycopersicon esculentum*)
4. Chanchal Verma (2018)  
(Groundwater Quality Assessment around Ash Disposal Site of Parichha Thermal Power Plant (Jhansi))
5. Preeti Sachan (2020)  
(Studies on Bioremediation of Pulp and Paper Mill Effluent rich in Phenol by using Immobilized Microbial Consortia)