

Renuka Gupta

Associate Professor, Ph.D.

Department of Environmental Sciences

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Professional Experience

- Presently working as Associate Professor (Environmental Sciences) since 28th January, 2020 at J.C. Bose University of Science and Technology YMCA, Faridabad, Haryana, India.
- Worked as Assistant Professor (Environmental Sciences) from 3rd August, 2009 - 27th January, 2020 at J.C. Bose University of Science and Technology YMCA, Faridabad, Haryana, India.

Academic Qualifications

- Ph.D. (Environmental Science and Engineering), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India (2010).
- M. Tech. (Environmental Science and Engineering), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India (2000).
- M. Sc. (Environmental Sciences), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India (1998).
- Awarded UGC - NET and JRF in Environmental Sciences (2002).
- Awarded ASRB – NET in Environmental Sciences, ICAR, New Delhi, India (1998).
- B. Sc., Maharshi Dayanand University, Rohtak, Haryana, India (1996).

Research Interests

- Environmental Pollution Monitoring and Control
- Sustainable Water and Wastewater treatment by Nanotechnology
- Solid Waste Management and Resource Recovery
- Heavy Metal Pollution Monitoring and Remediation

Research Projects

- Spatial Distribution of Natural Uranium in Groundwater of five districts in Haryana and NCR Delhi, India funded by Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India, Mumbai (Principal Investigator) (completed, 2016-2021) Rs. 27 Lakhs.
- Vermicomposting of Domestic and Industrial Wastes for Sanitation in Urban areas funded by YMCA University of Science and Technology, Faridabad (Principal Investigator), (completed) Rs. 2.0 Lakhs.

Research Guidance

- **Doctoral Thesis: Awarded -01, Ongoing- 04**

1. ‘Assessment of Vermitechnology in Solid Waste Management’

Candidate: Ms. Monika Mago, (Co – Guide: Prof. V.K. Garg, Central University of Punjab, Bathinda), Awarded

2. ‘Removal of Heavy metals and Dyes from Wastewater by Nanomaterials’

Candidate: Ms. Heena Chauhan, in progress

3. ‘Removal of Heavy metals from Simulated Wastewaters using Biochar and its Nanocomposites’

Candidate: Mr. Manjeet Kumar (UGC SRF), in progress

4. ‘Synthesis and Utilization of Nanocomposites for Removal of Heavy metals from Water’

Candidate: Ms. Divya Bhushan (UGC SRF), in progress

5. ‘Synthesis and Application of Transition Metal Oxide Nanocomposites for the Removal of Organic Contaminants from Water’

Candidate: Ms. Kiran Swami, in progress

- **PG Dissertation (M Sc Environmental Sciences) Completed (till 2024): 45**

Research Profile

Google Scholar Citations 5000+; h-index 20; i10-index 23

Google Scholar ID: <https://scholar.google.com/citations?user=P07USegAAAAJ&hl=en>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=7501321814>

Orcid ID: [0009-0006-1696-7525](https://orcid.org/0009-0006-1696-7525)

Major Publications in Peer Reviewed Journals

- Bhushan D., **Gupta R.** (2024). Biofabrication and Characterization of Silica-coated Zinc Oxide Nanocomposite: A Sustainable Approach in Remediation of Cr (VI) Contaminated Wastewater. *Water, Air, & Soil Pollution* 235 (6), 372. (**Impact Factor – 3.8**), **Springer**
- Bhushan D., Shoran S., Kumar R., **Gupta R.** (2024). Plant biomass-based nanoparticles for remediation of contaminants from water ecosystems: Recent trends, challenges, and future perspectives. *Chemosphere*, 143340. (**Impact Factor – 8.1**), **Elsevier**
- **Gupta R.**, M Mago, VK Garg (2024). Sustainable utilization and treatment of barnyard grass (*Echinochloa crus-galli*) weed biomass using vermitechnology. *Tropical Ecology* 65 (1), 114-123. (**Impact Factor – 1.5**), **Springer**
- Naresh Kumar, Bhupesh Khyalia, Rekha Dhiman, Jyoti Yadav, Balvinder Singh, Vivek Gupta, **Renuka Gupta** & Ranjeet Dalal (2023). Assessment of Uranium Concentration in Drinking Water around Khetri Copper Mine Region in Rajasthan, India. *Indian Journal of Pure & Applied Physics*, Vol. 61, June 2023, pp. 496-503, DOI: 10.56042/ijpap.v61i6.2428. (**Impact Factor – 0.84**), **CSIR NIScPR**
- Sandeep Kumar, Sangita Yadav, Navish Kataria, Amit Kumar Chauhan, Seema Joshi, **Renuka Gupta**, Parmod Kumar, Jun Wei Roy Chong, Kuan Shiong Khoo, Pau Loke (2023). Recent advancement in nanotechnology for the treatment of pharmaceutical wastewater: sources, toxicity, and remediation technology. *Current Pollution Reports* 9 (2), 110-142. (**Impact Factor – 6.4**), **Springer**
- Chauhan, A.K., Kataria, N., **Gupta R.**, Garg, VK (2023). Biogenic fabrication of ZnO@EC and MgO@EC using Eucalyptus leaf extract for the removal of hexavalent chromium Cr (VI) ions from water. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-022-24967-6>. (**Impact Factor - 5.190**), **Springer**
- **Gupta R.**, Mago, M., Garg, VK (2022). Infusion of fruit-vegetable waste biomass into bakery sludge to enhance nutrient availability and vermicompost maturity using *Eisenia fetida*. *Biomass Conversion and Biorefinery*. <https://doi.org/10.1007/s13399-022-03664-x>. (**Impact Factor - 4.09**), **Springer**

- Kataria N., Divya Bhushan, **Gupta R.**, Rajendran S., Teo M.Y.M, Khoo K.S. (2022). Current progress in treatment technologies for plastic waste (bisphenol A) in aquatic environment: Occurrence, toxicity and remediation mechanisms. *Environmental Pollution*, 315 (120319). <https://doi.org/10.1016/j.envpol.2022.120319>. (**Impact Factor - 9.988**), Elsevier
- Mago, M., Yadav, A., **Gupta, R.** and Garg, V. K. (2021). Management of banana crop waste biomass using vermicomposting technology. *Bioresource Technology*, 326, 124742. <https://doi.org/10.1016/j.biortech.2021.124742>. (**Impact Factor - 11.88**), Elsevier
- Mago, M., Yadav, A., **Gupta R.**, Garg, VK (2021). Sustainable treatment and nutrient recovery from leafy waste through vermicomposting. *Bioresource Technology*, 347 (126390). <https://doi.org/10.1016/j.biortech.2021.126390>. (**Impact Factor - 11.88**), Elsevier
- **Gupta, Renuka**, Yadav Anoop and Garg, V.K. (2014). Influence of vermicompost application in potting media on growth and yield of marigold crop. *International Journal of Recycling of Organic Waste in Agriculture* 3:47 (**Impact Factor – 1.2**), Springer
- Yadav Anoop, **Gupta, Renuka** and Garg, V.K. (2013). Organic manure production from cow dung and biogas plant slurry by vermicomposting under field conditions. *International Journal of Recycling of Organic Waste in Agriculture*. 2:21 (**Impact Factor – 1.2**), Springer
- Garg, V.K. and **Gupta, Renuka** (2011). Effects of Temperature variations on Vermicomposting of Household Solid waste and fecundity of *E. fetida*. *Bioremediation Journal*. 15(3):165–172 (**Impact Factor – 2.4**), Taylor & Francis
- **Gupta, Renuka** and Garg, V.K. (2011). Potential and Possibilities of Vermicomposting in Sustainable Solid Waste Management – A Review. *International J. Environment and Waste management*. 7 (3&4), 210-234 (**Impact Factor – 0.5**), Inderscience
- Garg, V.K. and **Gupta, Renuka** (2011). Quantification and Characterization of Household Solid Waste in Gurgaon City, India. *Waste Management*. 31 (6), 1419-1420 (**Impact Factor – 7.1**), Elsevier
- Garg, V.K. and **Gupta, Renuka** (2011). Optimization of cow dung spiked Pre-consumer processing vegetable Waste for vermicomposting using *Eisenia fetida*. *Ecotoxicology and Environmental Safety*. 74, 19-24 (**Impact Factor – 6.2**), Elsevier

- **Gupta, Renuka** and Garg, V.K. (2010). Nutrient recycling from different solid organic wastes employing an epigeic earthworm *Eisenia fetida*. World Review of Science, Technology and Sustainable Development. 7(3), 239-258 (**Inderscience**)
- Garg, V.K. and **Gupta, Renuka** (2010). Potential of *Eisenia fetida* for vermicomposting of garden trimmings spiked with cow dung. International J. of Global Environmental Issues. 10 (3/4), 293-309 (**Inderscience**)
- **Gupta, Renuka** and Garg, V.K. (2009). Vermi-remediation and nutrient recovery of non-recyclable paper waste employing *Eisenia fetida*. J. Hazardous Materials 162: 430-439. (**Impact Factor – 12.2**), Elsevier
- **Gupta, Renuka** and Garg, V.K. (2009). Vermicomposting of Garbage: A new Technology for Solid Waste Management for Hindu Temples. International Journal of Environment and Waste Management 3 (1/2): 51-64. (**Impact Factor – 0.5**), Inderscience
- Garg, V.K., **Gupta, Renuka** and Kaushik, Priya (2009). Vermicomposting of solid textile mill sludge spiked with cow dung and horse dung: A pilot-scale study. International J. Environment and Pollution. 38(4): 385-396. (**Impact Factor – 0.5**), Inderscience
- **Gupta, Renuka** and Garg, V.K. (2008). Stabilization of primary sewage sludge by vermicomposting. J. Hazardous Materials 153 (3): 1023-1030 (**Impact Factor – 12.2**), Elsevier
- **Gupta, R.**, Mutiyar, P.K., Rawat, N.K., Saini, M.S. and Garg, V.K. (2007). Development of a water hyacinth based vermireactor using an epigeic earthworm *Eisenia foetida*. Bioresource Technology 98: 2605-2610. (**Impact Factor - 11.88**), Elsevier
- Garg, V. K., **Gupta, Renuka** and Juneja, Tarika (2005). Removal of a Basic dye (Rhodamine-B) from aqueous solution by adsorption using timber industry waste. Chemical and Biochemical Engineering Quarterly 19(1): 75-80. (**Impact Factor – 1.6**), Chemical Society of Slovenia
- Garg, V. K., Kumar, Rakesh and **Gupta, Renuka** (2004). Removal of Malachite green dye from aqueous solution by adsorption using agro-industry waste: a case study of *Prosopis cineraria*. Dyes and Pigments. 62(1): 1 – 10 (**Impact Factor – 4.1**), Elsevier

- Garg, V. K., Kumar, Rakesh and **Gupta, Renuka** (2004). Basic dye (Methylene blue) removal from simulated wastewater by adsorption using Indian Rosewood sawdust: a timber industry waste. *Dyes and Pigments*. 63(3): 243- 250. **(Impact Factor – 4.1), Elsevier**
- Garg, V. K., **Gupta, Renuka**, Kumar, Rakesh and Gupta, R.K. (2004). Adsorption of chromium from aqueous solution on treated sawdust. *Bioresource Technology*. 92(1): 79 – 81. **(Impact Factor - 11.88), Elsevier**
- Meenakshi, Garg, V.K., Kavita, **Renuka** and Anju Malik (2004). Groundwater quality in some villages of Haryana, India: focus on fluoride and fluorosis. *J. Hazardous Materials*. 106(B): 85 – 97. **(Impact Factor – 12.2), Elsevier**
- Garg, V.K., **Gupta, Renuka**, Yadav, Anu Bala and Kumar, R. (2003). Dye removal from aqueous solution by adsorption on treated sawdust. *Bioresource Technology*, 89(2): 121 – 124. **(Impact Factor - 11.88), Elsevier**
- Garg, V. K., **Gupta, R.** and Taneja, M. (2004). Hydrochemistry of underground drinking water in Southern Zone of Hisar city. *Pollution Research* 23 (3): 461 – 465.
- Garg, V. K. and **Gupta, R.** (2002). Bioremediation of anaerobically digested post-methanation distillery spent wash. *Indian J. Chemical Technology*. 9(6): 491- 495.
- Garg, V. K., **Gupta, R.**, Malik, A., Pahwa, M. and Yadava, K. (2002) Assessment of water quality of Western Yamuna Canal from Tajewal (Haryana) to Haiderpur Treatment Plant (Delhi). *Indian J. Environment Protection* 22 (2): 191-196.
- Garg, V. K., Khurana, B. and **Gupta, R.** (2001). Groundwater quality in western zone of Hisar city (Haryana). *Indian J. Environment and Toxicology* 11 (2): 58-61.
- Garg, V. K., **Gupta, R.** and Goel, S. (2001) Ground water quality of an average Indian city. A case study of Hisar (Haryana). *J. Indian Water Works Association*. XXXIII (3): 237-242.
- Garg, V.K., **Gupta, R.**, Goel, S., Taneja, M. and Khurana, B. (2000). Assessment of underground drinking water quality in Eastern part of Hisar. *Indian J. Environment Protection* 20 (6): 407-412.
- Garg, V. K., **Gupta, R.** and Balyan, R.S. (1999). Biology and control of carrot weed. *Indian J. Weed Science*, 31 (3&4): 124 – 129.

Book Chapters

- **R. Gupta**, H. Chauhan, V.K. Garg, N. Kataria (2022). Chemical and Physical properties of Nanoparticles and Hybrid materials. In edited book: “Sustainable nanotechnology for Environmental Remediation: Elsevier, pp 199-220.
- Monika Mago and **Renuka Gupta** (2021). “Vermi-conversion of Fruit and Vegetable waste into organic manure: An approach towards Sustainable Solid Waste Management” In Advances in Environmental Science and Engineering (Editors: M.L. Aggarwal, Renuka Gupta, Somvir Bajar, Vishal Puri) Pp:73-82 (Kripa Drishti Publications, Pune) ISBN: 978-93-90847-18-1
- Heena Chauhan and **Renuka Gupta** (2021). “Removal of Heavy Metals and Dyes by Modified Graphene Oxide Nanoparticles” In Advances in Environmental Science and Engineering (Editors: M.L. Aggarwal, Renuka Gupta, Somvir Bajar, Vishal Puri) Pp:51-54 (Kripa Drishti Publications, Pune) ISBN: 978-93-90847-18-1
- **Renuka Gupta** and V.K. Garg (2017). Vermitechnology for Organic Waste Recycling. In Current Developments in Biotechnology and Bioengineering – Solid Waste Management (Editors: Jonathan W.-C. Wong, Rajeshwar D. Tyagi, Ashok Pandey) Pp: 83 – 112 [Elsevier] ISBN 978-0-444-63664-5.
- **Renuka Gupta** and V.K. Garg (2015). Sustainable Approach to Waste Management: Vermicomposting Technology. In Waste Management: Challenges, Threats and Opportunities (Editors: Dr R. P. Singh and Dr. A. Sarkar) Pp: 65 –88 [Nova Science Publishers, NewYork] ISBN 978-1-63482-195-7.
- **Renuka Gupta**, V.K. Garg (2013). Groundwater Pollution Issues: with special reference to Fluoride, Arsenic and Uranium. In Water for Health - Healthy Water, Healthy Life (eds: Gill, S.S., Manhas, R. and Bansal, P.). 2013, 93-107 [Gulab Publishers, Sangraur] ISBN: 978-81-92064-0-5.
- **Renuka Gupta**, Bhupinder Singh and V.K. Garg (2012). Environmental Fluorides: Risk Assessment and Remediation. In Human and Animal Health: Environmental Perspectives (Editor: Dr S.R. Garg) Pp: 65 –88 (SSPH Publishing House, India) ISBN 978-93-81226-30-8.

- V.K. Garg and **Renuka Gupta** (2011). Solid Waste Management by vermitechnology. In: Recent Advances in Environmental Technology (ed. Prof. S. Garg) (Editor: Garg, S.R.) Pp: 485 –499 (idbc publishers, India)
- Garg, V.K. and **Gupta, Renuka** (2009). Vermicomposting of Agro-industrial Processing waste. In: Biotechnology for Agro-Industrial Residues Utilisation. (Eds.: P. Singh nee' Nigam, A. Pandey). 431-456. Springer Publishers.
- Garg, V.K **Gupta, Renuka**, and Yadav, Anoop (2007). Potential of Vermicomposting Technology in Solid Waste Management. *In:* Solid State Fermentation (Eds: Pandey et al.). Asia-Tech Publishers Inc., New Delhi (for India) and Springer Publishers (for Rest of the World) pp 468-511.

Edited Book

- Aggarwal, M.L., **Gupta R.**, Bajar S. and Puri V (Eds.). (2021). Advances in Environmental Science and Engineering. Kripa-Drishti Publications, Pune. (ISBN: 978-93-90847-18-1).

Editorial/Review Activities

- Guest Editor, Special Issue on Fate and Transport of co-contaminants in soil and water environments: Risk, resilience, and remediation in Journal of Hazardous Material Advances (2024-25) (Elsevier, Impact Factor: 5.4).
- Reviewer of various reputed journals – Bioresource Technology, Bioresource Technology Reports, Science of Total Environment, Groundwater for Sustainable Development, Journal of Environmental Management, Journal of Hazardous materials, Chemosphere, Water, Air and Soil Pollution, Environmental Research, Arabian Journal of Chemistry, Journal of Environmental Chemical Engineering, etc.

Extension and Outreach Publications

a) e-content Developemnt

- Developed e-content for Paper - Ecosystem Structure and Function in Environmental Sciences for ePG Pathshala as Paper coordinator and content writer.

<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvq9yUM2ILDrJ07FvIArQ==>

b) e-Proceedings/Abstract Booklet

- Editor, Abstract Booklet Souvenir for the 10th International Symposium on Fusion of Science and Technology (ISFT 2024) held on January 4-8, 2024 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Editor, e-proceedings for the 8th International Symposium on Fusion of Science and Technology (ISFT 2020) held on January 6-10, 2020. ISBN: 978-93-5396-516-7 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Editor, Abstract Booklet for the National Conference on 'New Horizons in Technology for Sustainable Energy and Environment' (NHTSEE-2017) held from 9th and 10th March, 2017 at J.C. Bose University of Science and Technology YMCA Faridabad.

c) Scientific Articles in Magazines/ Newspapers

- **Gupta, Renuka** and Garg, V.K. (2000) *Kahin Aapke Paani main Arsenic to nahin* (In Hindi) Dainik Jagran, August 9, 2002, pp 9.
- Garg, V.K. and **Gupta Renuka** (2000). *Haspatalon Ka Kachra Shatabdi Kee Trasdi* (In Hindi). Dainik Jagran, August 30, 2000, pp 7.
- Garg, V.K. and **Gupta, Renuka** (2000) *Plastic Ka Janjivan per Mandarata Khatra* (In Hindi). Dainik Jagran, September 20, 2000, pp 7.
- **Gupta, Renuka** and Garg, V.K. (2000) *Congress Grass: Ek Ghatak Kharpatwar* : Dainik Jagran (In Hindi) : October 3, 2000, pp 10.
- Garg, V.K. and **Gupta, Renuka** (2000). *Fluoride Ka Manav Swasthya per dushparbhav* (In Hindi). Yojana (Hindi): 43 (11) Feb., 2000, 38-41.
- Garg, V.K. and **Gupta, Renuka** (1999) Hospital Waste Management. Environmental Pollution Control Journal. 2 (6): 5-9.
- Garg, V.K., Dahiya, S. and **Gupta, Renuka** (1999) *Bhumigt Jal Main Fluoride ki Adhikta Manav Swasthya per Dusparbhav*. Paryavaran Urja Times (In Hindi). 1 (12) (January, 1999): 26-27.

- **Gupta, Renuka** (1999). *Manav apshist evam gharelu kachere ki punarupयोग की pranaliyan*. Paryavaran Urja Times (In Hindi). 2(6) (July, 1999): 35-36.

Paper presented/published in International/National Conferences

- Manjeet Kumar and **Renuka Gupta**. Removal of Cr(VI) from aqueous solutions using Rice Husk Biochar in 10th International Symposium on Fusion of Science and Technology (ISFT-2024), held on January 04 - 08, 2024 at J.C. Bose University of Science and Technology, YMCA, Faridabad.
- Divya Bhushan and **Renuka Gupta**. ‘Biosynthesis and Application of Silica-coated Zinc Oxide Nanocomposite for Removal of Pb(II) ions from Simulated wastewater’ in 10th International Symposium on Fusion of Science and Technology (ISFT-2024), held on January 04 - 08, 2024 at J.C. Bose University of Science and Technology, YMCA, Faridabad.
- Divya Bhushan and **Renuka Gupta**. ‘Current Development in Metal Oxide-Based Nanomaterials for Adsorptive Removal of Heavy Metal ions’ in one day National Seminar on ‘Empowering youth for a Sustainable tomorrow: Recent trends and the Roadmap’ on 9th March, 2024 organized by PG Department of Commerce of S.S.D. Girls’ College, Bathinda sponsored by Indian Council of Social Science Research (ICSSR), Chandigarh.
- Monika Mago and **Renuka Gupta**, “Management of Food Waste by Vermicomposting: Moving Forward towards environmental Sustainability” in two days International Conference on Sustainability of Food: a Global Perspective held from 17th - 18th September 2021 by Manav Rachna Centre for Peace and Sustainability, Faridabad.
- Monika Mago and **Renuka Gupta**, “Vermi-conversion of Fruit and Vegetable waste into Organic Manure: An approach towards sustainable solid waste management” in National Conference on Advances in Civil Engineering and Environmental Sciences (ACEES- 2021) during Jan 14-15, 2021 at JC Bose University of Science and Technology, YMCA, Faridabad.
- Heena Chauhan and **Renuka Gupta**, ‘Degradation of dyes and Removal of heavy metals by graphene oxide’ in National Conference on Advances in Civil Engineering and Environmental Sciences. (ACEES-2021) held at J.C. Bose University of Science & Technology, YMCA, Faridabad, India from January 14-15, 2021.

- Pushpinder Kaur and **Renuka Gupta**, 'Groundwater Quality affecting agricultural system of a rapidly industrializing area' in International Conference on Environmental Challenge and Solutions held on 31st January to 2nd February, 2020 jointly organized by Shiksha Sanskriti Utthan Nyas, New Delhi, Manav Rachna International Institute of Research and Studies, Faridabad and Dakshina Foundation, Delhi.
- Monika Mago and **Renuka Gupta**, 'Vermicomposting: A novel Process in Sustainable Solid Waste Management in International Conference on Environmental Challenge and Solutions held on 31st January to 2nd February, 2020 jointly organized by Shiksha Sanskriti Utthan Nyas, New Delhi, Manav Rachna International Institute of Research and Studies, Faridabad and Dakshina Foundation, Delhi.
- Heena Chauhan and **Renuka Gupta**, 'Synthesis of Low-Cost Metal Nanoparticles' in International Conference on Environmental Challenge and Solutions held on 31st January to 2nd February, 2020 jointly organized by Shiksha Sanskriti Utthan Nyas, New Delhi, Manav Rachna International Institute of Research and Studies, Faridabad and Dakshina Foundation, Delhi.
- Heena Chauhan and **Renuka Gupta**, Fabrication of Nanomaterial and Its Application in Sequestration of Heavy Metals from Effluent in National Conference on Functional Materials (NCFM-2020) at Sharda University, Greater Noida, Uttar Pradesh from 25th-26th July 2020.
- **Gupta, Renuka**, Garg, V.K. and Dahiya S. (2008). Bioconversion of Different organic wastes Employing *E. fetida*: A comparative study. In Proceeding of the National Symposium on Environment (NSE-16) held at Guru Jambheshwar University of Science and Technology, Hisar from 16-18 July, 2008, pp 347-351.
- **Gupta, Renuka** and Garg, V.K. (2008). Vermistabilization of Solid Waste Employing *E. fetida*. In Proceeding of the National Conference on Recent Advances in the Development of Sustainable Environment (RADSE- 2008) held at Haryana Engineering College, Jagadhari from May 3-4, 2008, pp 30- 35.
- **Gupta, Renuka** and Garg, V.K. (2008). Management of aquatic weed (water hyacinth) by vermicomposting technology. In Proceeding of the National Conference on Environmental Degradation - Challenges and Remedies (EDCR-2008) held at M. M. University, Mullana (Ambala) from 13-14 March, 2008, pp 125-128.

- **Gupta, Renuka** and Garg, V.K. (2008). Vermicomposting of Paper Waste amended with cow dung. In Proceeding of the National Conference on Technological Innovations (NCTI-2008) held at BRCM College of Engineering and Technology, Bahal (Bhiwani) from 11-12 October, 2008, pp 137-141.
- Garg, V.K. and **Gupta, Renuka** (2007). Prospects of vermicomposting technology in aquatic weed management. In Proceedings of International Scientific and Practical Conference “Vermicomposting and Vermiculture as basis of ecological landownership in XXI century – problems, outlooks, achievements” held at Minsk, Akademicheskaya, 27, Institute of Zoology of NAS, Belarus from at 4 – 8 June 2007. pp 86-88.
- Dahiya, S.; Garg, V. K., **Gupta, R.**, Yadava K., Pahwa, M. and Malik, A. (2001). Fluoride distribution in groundwater and prevalence of dental fluorosis among school children in some North Indian Villages. In proceedings of the 10th National Symposium on Environment held at BARC, Mumbai from 04-06 June, 2001. Pp. 172-174.

Academic Contributions at National Level

- Member, Sub Committee on Research and Development, National Commission for Air Quality Management in National Capital Region and Adjoining areas, New Delhi, India
- Environment Nodal Officer, University Representative in Paryavaran Sanrakshan Gatividhi Organization (all-India organization on environmental conservation and protection).

Membership in Professional Societies

- Life member, Indian Nuclear Society (INS), Anushaktinagar (Mumbai)
- Life member, Biotechnology Research Society of India (BRSI), Trivandrum
- Life member, Indian Science Congress Association, Kolkata
- Life member, National Environmental Science Academy, New Delhi
- Life member, Indian Society for Technical Education, New Delhi
- Life member, Indian Association of Air Pollution Control, New Delhi

Major Roles & Responsibilities at University/Department Level

- Chairperson, Department of Environmental Sciences (Since 2020)
- Faculty Incharge, Department of Environmental Sciences (2016-20)

- Member, Academic Council (2024 - 2026)
- Chairperson, Board of Studies, Department of Environmental Sciences (2020-till date)
- Chairperson, Department Research Committee (2020-till date)
- Member, Board of Faculty of Sciences (2024 – till date)
- Coordinator, Vasundhara – ECO-CLUB
- Member, University Child Care Centre (Since 2023)
- Coordinator, MoU with NGO Eco-Savera (Since 2024)
- Centre Superintendent, CBCS December Examination 2023
- Member, Academic Council (2018-20)
- Member, Board of Faculty of Life Sciences (2021-23)
- Member, Central Purchase Committee (2022-23)
- Coordinator, Green Campus (2016-2022)
- Member, Sub-Committee under NEP 2020 Cell (2022)
- Member, NAAC Criteria 7 Committee (2019-22)
- Member, Departmental Promotion Committee for Non-teaching and Workshop Staff(2020-2022)
- Member, BOS, Centre for Energy Studies (2021-23)
- Chairperson, Syllabus framing workshop for B.Tech. Environmental Engineering (2022)
- Member, Committee to consider proposal regarding introduction of Environmental Studies as compulsory subject in UG and PG program of the University (2022)
- Coordinator, Green Audit of University during NAAC and NBA (2021)
- Member, Curriculum Development Workshop for MTech EEE Syllabus (2021)
- Member, Curriculum Development Workshop for MSc 2nd Semester (Botany, Zoology, Microbiology, Biotechnology) (2021)
- Member, Committee for Research Awards for published research work (2021)
- Coordinator, Committee for drafting proposal of courses in Bio-sciences (2020)
- Chairperson, Syllabus Revision Workshop for MSc Environmental Sciences (2020)
- Environment Management Framework (EMF) Coordinator, TEQIP III (2018-20)
- Departmental Coordinator, Swachh Bharat Summer Internship – 2018
- Superintendent, MSc EVS Entrance Exam 2018
- Coordinator, Workshops for Curriculum Development for MSc Environmental Sciences held in Dec, 2015 and Feb, 2016.

- Chairperson, MSc and PhD Admission Committee
- Member, Committee for framing PG Ordinances

Key Accomplishments at University/Department level

- Founder Coordinator, MSc Environmental Sciences
- Founder Chairperson, BTech Environmental Engineering
- Founder and Coordinator, Vasundhara Eco-club
- Established Water Research Laboratory at the University
- Established Environmental Laboratory for MSc EVS students at the University
- Established University Policy on ‘Waste Management and Green Initiatives’ and implementation
- Established Guidelines on ‘Tree Plantation and Care’ for UG students of University and Affiliated Colleges and implementation
- Development of Greenhouse at University campus
- Development of Horticulture Centre at university including University Nursery, Vegetable Garden and Composting Unit
- Contributed in enhancing Green cover of university campus by various Plantation activities
- Contributed in development of various Green Initiatives of University
- MoU Coordinator - Facilitated and coordinated the signing of MoU between NGO Eco-Savera and J.C. Bose University of Science and Technology, YMCA Faridabad for collection of non-recyclable Plastic waste from university campus (2024).

Academic Activities Organized

a) National/International Conferences:

- Organizing Secretary, 10th International Symposium on Fusion of Science and Technology (ISFT-2024) held on 4th -8th January, 2024 organized by J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Program Chair and Convener, National Conference on “Advances in Civil Engineering and Environmental Sciences (ACEES-2021)” organized by Department of Environmental Sciences and Civil Engineering, J.C. Bose University of Science & Technology, YMCA, Faridabad from January 14-15, 2021.

- Organizing Secretary, 8th International Symposium on Fusion of Science and Technology (ISFT-2020) held on 6th -10th January, 2020 organized by J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Convener, National Conference ‘New Horizons in Technology for Sustainable Energy and Environment’ (NHTSEE-2017) held from 9th and 10th March, 2017 at YMCA University of Science and Technology, Faridabad.

b) Value Added Courses/ FDP/STC:

- Course Coordinator and Convener, Value added Course on ‘Waste Handling and Management: Strategies and Practices’ (30 hrs) organized by Department of Environmental Sciences and Vasundhara Eco-club from 2nd – 23rd April, 2024 at J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Convener, AICTE sponsored One-week STTP on “Recent Advances in Technologies for Environmental Sustainability” held from 7th March - 12th March 2022 organized by Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, Value-Added Course on ‘Analytical Tools and Techniques in Environmental Research’ from February 22-26, 2021 organized by Department of Environmental Sciences, J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Convener, TEQIP-III sponsored One-week Faculty Development Program on “Green Technologies & Environmental Sustainability” from September 07-12, 2020 organized by Department of Environmental Sciences, J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Convener and Course Coordinator of Value-Added Course on ‘Green Technologies & Environmental Sustainability’ from September 07-16, 2020 organized by Department of Environmental Sciences, J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Convener, NITTTR sponsored one-week Short Term Programme on ‘Climate Change and Sustainable Infrastructure Development’ held from 4th June – 9th June, 2018 at YMCA University of Sciences and Technology, Faridabad.

- Convener, one-week Short Term Programme on ‘Environment, Development and Sustainability’ held from 4th July – 8th July, 2016 organized by Department of Humanities and Sciences, YMCA University of Sciences and Technology, Faridabad financially sponsored by NITTTR, Chandigarh.

c) Students Awareness Programs/Workshops/Seminars:

- Convener, Celebrations of Earth Day – 2025, Theme: Our Power, Our Planet, organized on 22nd April, 2025 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, 1st Alumni Meet of Department of Environmental Sciences held on 19th April, 2025 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, Expert Lecture on Environment, Social and Governance held on 15th April, 2025 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Co-convener, National Science Day 2025, organized by Faculty of Sciences on 28th February, 2025 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, Tree Care Day – 2025, held at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, ‘National Youth Parliament 2025’ University Level competition organized by Vasundhara Eco-club, J.C. Bose University of Science and Technology YMCA Faridabad held on December 2025 under the aegis of Student for Development.
- Convener, ‘Awareness Session on Waste Management’ organized by Department of Environmental Sciences on 12th September, 2024 in collaboration with NGO Eco-Savera at JC Bose UST YMCA Faridabad.
- Convener, Plantation Campaign ‘Ek Ped Maa Ke Naam’ organized by Department of Environmental Sciences and Vasundhara Eco-club on 16th August, 2024 at JC Bose UST YMCA Faridabad.
- Convener, ‘Tulsi Plant Distribution’ held from 12th-13th August, 2024 organized by Vasundhara Eco-club and Department of Environmental Sciences, J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, ‘World Environment Day Celebrations’ (Theme: Our Land Our Future) organized by

Department of Environmental Sciences in collaboration with The Institution of Engineers, Faridabad Local Chapter on 5th June, 2024 at J.C. Bose University of Science and Technology YMCA Faridabad.

- Convener, ‘World Water Day Celebrations’ (Theme Water for Peace) on 20th March, 2024 (Poster Making, Poetry and Slogan Writing Competitions) organized by Vasundhara Eco-club and Department of Environmental Sciences, J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, ‘National Youth Parliament 2024’ (Theme Paryavaran Chetna – Environment and Sustainability) University Level competition organized by Vasundhara Eco-club, J.C. Bose University of Science and Technology YMCA Faridabad held on November 2023 under the aegis of Student for Development (SFD) and Paryavaran Sanrakshan Gativedhi (PSG) Organizations.
- Convener, Plantation Drive Hariyali Parv 2.0 (2023) (11 Sessions conducted) at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, ‘World Water Day Celebrations’ (Theme: Accelerating the change to solve water and sanitation crisis) on 20th March, 2023 organized by Vasundhara Eco-club and Department of Environmental Sciences, J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, Capacity building workshop on Organic Waste Management organized by Department of Environmental Sciences and Vasundhara Eco-club on 20th December, 2022 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Overall Coordinator, Plantation Drive Hariyali Parv (2022) (25 Sessions conducted) at J.C. Bose University of Science and Technology YMCA Faridabad.
- Coordinator, Tree Care Day organized by Vasundhara Eco-club and Department of Environmental Sciences on 20th December, 2022 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, Interactive session with Padma Bhushan Shri Anil Joshi on 1st November, 2022 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, One Day seminar on EIA, EHS and Energy Auditing: Scope and Opportunities on 12th December, 2022 at J.C. Bose University of Science and Technology YMCA Faridabad.

- Convener, One Day Webinar on “International Day of Clean Air for Blue Skies” on theme “Healthy Air, Healthy Planet” held on 7th September, 2021 organized by Department of Environmental Science & Engineering and Vasundhara ECO-CLUB, J.C. Bose University of Science and Technology YMCA Faridabad.
- Coordinator, ‘Paudha Mera Dost’ Plantation Drive on 14th -15th July, 2022 organized by Department of Environmental Science & Engineering and Vasundhara ECO-CLUB, J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, “National Youth Parliament 2022” Nurturing Environment Leaders on the theme Paryavaran Chetna – Environment and Sustainability organized by Vasundhara Eco-club, J.C. Bose University of Science and Technology YMCA Faridabad held on 12th January, 2022 under the aegis of Paryavaran Sanrakshan Gatividhi Organization.
- Convener, “Tulsi Plant Distribution Program” on the occasion of International Ozone Day” from 16th -17th September, 2021 organized by Vasundhara Eco-club, J.C. Bose University of Science and Technology YMCA Faridabad.
- Convener, Plantation Drive ‘Ek Paudha Ek Sankalp’ during Environment Day Celebrations held on 4th June, 2021 organized by Vasundhara Eco-club, J.C. Bose University of Science and Technology YMCA Faridabad.
- Coordinator, Webinar on “World Environment Day 2021” on theme “Ecosystem Restoration” on June 5, 2021 organized by Vasundhara ECO-CLUB and NSS, J.C. Bose University of Science & Technology, YMCA, Faridabad.
- Convener, “National Youth Forum 2021” “Nurturing Environment Leaders” on the theme “Paryavaran Chetna - Environment and Sustainability” on January 19, 2021 organized by Vasundhara ECO-CLUB, J.C. Bose University of Sc & Tech, YMCA, Faridabad.
- Convener, Plantation and Selfie Contest Competition– One week for Nation held from 15th August – 22nd August, 2020 jointly organized by Vasundhara Environment Society and UBA Cell of J.C. Bose University of Science and Technology YMCA Faridabad under the aegis of Paryavaran Sanrakshan Gatividhi.
- Program Chair, Two Days International Webinar on “Science & Technology for Nature Conservation” held on 5th June, 2020 organized by Department of Environmental Sciences, JC

Bose UST YMCA Faridabad in collaboration with Vigyan Bharti, Assocham GEM and CP Consultant Pvt Ltd.

- Convener, Tree Plantation Campaign held during August, 2018 at YMCA University of Sciences and Technology, Faridabad. (Activities: Distribution of 1000 plant saplings over Faridabad city).
- Convener, Celebrations of World Environment Day-2018 at YMCA University of Science and Technology, Faridabad. (Activities: Tree plantation and expert talk)
- Convener, Intra-university Student Awareness Programme International Earth Day organized on 19th April, 2018 at YMCA University of Science and Technology, Faridabad. (Activities: 1. Signature Campaign to reduce the use of plastic; 2. Scientific Poster exhibition and competition 3. Expert Lecture)
- Convener, Student Awareness Programme World Water Day held on 23rd March, 2018 at YMCA University of Science and Technology, Faridabad. (Activities: 1. Slogan writing competition 2. Declamation contest)
- Convener, Intra-university Student Awareness Programme International Day for ‘Preservation of the ozone layer’ on 15th September, 2017 organized at YMCA University of Science and Technology, Faridabad. (Activities: 1. Scientific Poster Exhibition cum competition 2. Enviro-Quiz 3. Expert Lecture)
- Convener, Seminar ‘An Integrated Approach to Research Quality and Ethics’ held on 20.01.2017 organized at YMCA University of Science and Technology, Faridabad
- Convener, Seminar ‘Saraswati ki Kahani, Vigyan ki Jubaani’ held on 07.10.2016 organized at YMCA University of Science and Technology, Faridabad.
- Convener, Intra-university Student Awareness Programme International Day for the Preservation of the Ozone Layer on 16.09.2016 - Poster and Slogan writing Competition organized at YMCA University of Science and Technology, Faridabad
- Convener, Seminar on ‘Global Warming, Carbon Emissions and Climate Change’ held on 21st January, 2016 organized by Department of Humanities and Sciences, YMCA University of Sciences and Technology, Faridabad.

- Coordinator, ‘Science Exhibition’ in ‘Science Conclave-2014’ held on 16-17 April, 2014 at YMCA University of Science & Technology, Faridabad sponsored by Department of Science and Technology, Haryana.

d) Events Contributed as Organizing Committee Member:

- ‘Micro, Small, Medium Enterprises Conclave – 2018 held on 28th March, 2018 at YMCA University of Science and Technology, Faridabad.
- National Media Sammelan and Filmotsava-2017 held on 10-11 November, 2017 at YMCA University of Science and Technology, Faridabad.
- Science Conclave-2017 held on 25th – 26th October, 2017 at YMCA University of Science and Technology, Faridabad sponsored by Department of Science and Technology, Haryana.
- International Conference on ‘Sustainable Development through Research in Engineering and Management’ (SDREM-2016) jointly organized by Department of Electronic Engineering and Department of Management Studies, YMCA University of Science and Technology, Faridabad from 26th December-27th December, 2016.
- National Conference on ‘Advances in Mathematics & Computing’ (AMC-2017) jointly organized by Department of Mathematics & Computer Engineering, YMCA University of Science and Technology, Faridabad from 1-2 May, 2017.
- National Conference on ‘Role of Science and Technology Towards in India’ held from 3-5 March, 2016 at YMCA University of Science and Technology, Faridabad.
- “National Science Day” events held in February 2016 at YMCA University of Science and Technology, Faridabad
- Cultural fest CULMYCA/Sports Meet at YMCA University of Science & Technology, Faridabad.
- International Conference on “Paradigm Shift in Management and Technology” (PSIMT-2015) held from 9-10 April, 2015 at YMCA University of Science and Technology, Faridabad
- Two-days Workshop “Cyber Forensic and Information Security” held on 21-22 March, 2015 at YMCA University of Science and Technology, Faridabad

- “National Science Day” events held on 27 February, 2015 at YMCA University of Science and Technology, Faridabad
- ‘Inter-College Science Quiz Competition - 2014’ held on 5th September, 2014 at YMCA University of Science & Technology, Faridabad.
- Two day ‘BARC Outreach Programme’ on “Atomic Energy: Gearing up for future” held on 2-3 September, 2014 at YMCA University of Science & Technology, Faridabad in alliance with Bhabha Atomic Research Centre, Mumbai
- Orientation Programme for Newly Recruited Staff members held in August, 2014 at YMCA University of Science & Technology, Faridabad
- ISTE sponsored Faculty Development Program on “Teaching Skills Enhancement” held on 6-10 January, 2014 at YMCA University of Science and Technology, Faridabad
- National Symposium ‘Symposium on Nanotechnology: Interdisciplinary Aspects’ held on Dec 12, 2012 at YMCA University of Science & Technology, Faridabad.
- ‘Sixteenth National Symposium on Environment’ held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar in association with Bhabha Atomic Research Centre, Trombay, Mumbai.
- Public Awareness programme on “Atom for Peace” held from 15-17 April, 2008 at Guru Jambheshwar University of Science and Technology, Hisar in Association with Indian Association for Radiation Protection, Trombay, Mumbai.
- ‘National Workshop on Nuclear Energy and Environment’ held on 15 December, 2007 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, under TEQIP (World Bank Project)

Invited Talks/Resource Person/Session Chair

- Awareness Sessions on Green Initiatives during Orientation Program for UG Students at JC Bose University YMCA, Faridabad (2024).
- Expert Talk on Solid Waste Management in 1st National Conference on ‘Environmental Sustainability: Solutions through technology and Indigenous Knowledge System’ held at Rajasthan Technical University Kota, Rajasthan, India during October 09-10, 2023.

- Invited Talk, ‘National Youth Parliament 2022’ at Manav Rachna International University, Faridabad on 15th April, 2022.
- Expert Lecture on Organic Waste Management in Capacity building workshop organized by Department of Environmental Sciences and Vasundhara Eco-club on 20th December, 2022 at J.C. Bose University of Science and Technology YMCA Faridabad.
- Session Chair, International Conference on Advances in Sustainable Energy, Environment and Engineering (*ICASEE-2021*) at J. C. Bose University YMCA, Faridabad (India), April 16-17, 2021.
- Guest of Honor and Invited Talk, Online Orientation Workshop of C4Y-IWP Water Champions Youth Fellowship 2020 on July 13, 2020 organized by Centre for Youth and India Water Partnership.
- Expert Lecture, Solid Waste Management Technologies, Ten Days Online Value-Added Course on “Green Technologies and Environmental Sustainability” from September 7-16, 2020 at JCBUST, YMCA Faridabad.

Participation (FDP/Seminar/Workshops/Training)

- Participated in National Conference on Air, Water and Soil held on 23rd – 24th September, 2022 organized by Bharat Seva Pratishthan, Faridabad.
- Participated in e-Faculty Development Programme on Sustainable Environment and Climate Change (SECC-2022) organized by Department of Applied Sciences, National Institute of Technology, Delhi under Scientific Social Responsibility, SERB during 14th June – 19th June, 2022.
- AICTE sponsored One-week online STTP on “Recent Advances in Technologies for Environmental Sustainability” held from 7th March – 12th March 2022 organized by Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad.
- One-week AICTE sponsored online STTP on “Research Excellence and Academic Development: Modern Library Practices in Present Scenario” held from 28th Feb – 5th March 2022 organized by Pt. Deen Dayal Upadhyay Central Library, J.C. Bose University of Science and Technology YMCA Faridabad.

- Webinar on “Converting Research to Patents” organized by Department of Electrical Engineering, J. C. Bose University of Science and Technology, YMCA, Faridabad on 4th March 2022.
- Webinar on Novelty of Nanomaterials and their applications organized by Nano and Molecular Society, India on 9th July, 2021
- Professional Development Program (PDP-2021) from 28th June – 3rd July 2021 organized by JCBUST, YMCA Faridabad.
- Three Day online Social Internship Program held from 18th-20th June, 2021 organized by Paryavaran Sanrakshan Gatividhi Organization.
- One Day National Webinar on Restore our Earth on April, 2021 organized by Department of Environmental Sciences, Indira Gandhi University Meerpur, Rewari
- Online Panel Discussion on ‘Plastic Waste in COVID-19 Pandemic’ on 24th June, 2020 conducted by Indian Pollution Control Association, New Delhi
- Online National Vice-chancellor e-Conclave ‘Vice-Chancellor e-Conclave’ on 13th June, 2020 organized by Shri Vishwakarma Skill University, Gurgaon
- TEQIP-III sponsored One-week Faculty Development Program on “Green Technologies & Environmental Sustainability” organized by Department of Environmental Sciences, J.C. Bose University of Science & Technology, YMCA, Faridabad from September 07-12, 2020.
- Webinar on Teacher’s Day organized by Amity School of Applied Sciences, Amity University, Haryana and J.C. Bose University of Science and Technology, YMCA Faridabad in association with Vigyan Bharti on 5th September, 2020.
- TEQIP-III sponsored Three Day Online Faculty Development Program "Green Technologies" held from 18th - 20th July, 2020 organized by Department of Electrical Engineering at JCBUST, YMCA Faridabad.
- TEQIP-III sponsored One Week Online Faculty Development Program "Industry Academia Convergence - Bridging the skill gap" organized by Department of Electronics Engineering, held from 22nd June -26th June, 2020 at JCBUST, YMCA Faridabad.

- NITTTR sponsored STC on ‘Climate Change and Sustainable Infrastructure Development’ held from on 4th -9th June, 2018 organized by HAS Department, YMCA University of Science &Technology, Faridabad.
- TEQIP-III Sponsored FDP on ‘Intelligent Management of Renewable Energy Technologies’ held from 18th -23rd January, 2018 organized by Department of Electrical Engineering, YMCA University of Science & Technology, Faridabad.
- FDP on ‘Big Data Analytics and Data/Text Mining using SPSS’ held from 19th-24th December, 2016 Jointly organized by Department of Computer Engg., YMCAUST, Faridabad and SPSS South Asia.
- NITTTR sponsored one-week Short Term Programme on ‘Environment, Development and Sustainability’ held from 4th July – 8th July, 2016 organized by Department of Humanities and Sciences, YMCA university of Sciences and Technology, Faridabad.
- NITTTR sponsored one week ICT based Faculty Development Programme on “Effective Communication Skills” held from January, 2016 at YMCA University of Science and Technology, Faridabad
- AICTE Sponsored Faculty Development Program on “Emerging Behavioral Aspects in Technical Education” held from 20 April, 2015 to 1st May, 2015 at YMCA University of Science and Technology, Faridabad
- ISTE Sponsored Faculty Development Program on “Application of MATLAB and SPSS in Research” held on 22-28 July, 2014 at YMCA University of Science and Technology, Faridabad
- ISTE Sponsored Faculty Development Program on “Effective Teaching and Research” held on 6-10 July, 2014 at YMCA University of Science and Technology, Faridabad
- ISTE Sponsored Faculty Development Program on “Teaching Skill Enhancement” held on 6-10 January, 2014 at YMCA University of Science and Technology, Faridabad
- Refresher course in ‘Basic Sciences (Interdisciplinary)’ held on 9th May -30th May, 2013 at UGC Academic Staff College, Jamia Millia Islamia, New Delhi

- Short Term Course on ‘Sustainable Development- Issues and Latest Development’ held on 2nd July to 13th July, 2012 at PTU, Giani Zail Singh Campus, Bathinda.
- UGC Orientation Programme held on 13th June – 9th July, 2011 at UGC Academic Staff College, Guru Jambheshwar University of Science & Technology, Hisar.
