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Personal details		
Name	Dr. Varinder Kaur	Scopus: 1020; h-index: 19
Date of Birth	27-01-1975	Web of Science: 488; h-index: 12
Present Position	Associate Professor (Stage-IV) Department of Apparel and Textile Technology, Guru Nanak Dev University, Amritsar.	Google scholar: 758 h-index: 17, i10-index: 24

Address

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Dr. Varinder Kaur, Associate Professor Department of Apparel and Textile Technology, Guru Nanak Dev University, Amritsar-143005. PUNJAB. Phone: 0183-258802-09 Exn.- 3266	Dr. Varinder Kaur, B-16, University Campus, Guru Nanak Dev University, Amritsar--143005. PUNJAB Mobile: 9888504121

Qualification

Class	University/Board	Year of passing	Percentage obtained	Division obtained
Ph. D.	Guru Nanak Dev University, Amritsar	2014	Thesis: Studies on Application of Natural Dyes on Natural Fibres	
M.Tech. (Textile Chemistry)	The Technological Institute of Textile & Sciences, Bhiwani (Birla Institute) Maharishi Dyanand University, Rohtak	2000	72.6%	First
B.Tech.. (Textile Chemistry)	The Technological Institute of Textile & Sciences, Bhiwani (Birla Institute) 1 st - 4 th Sem: Maharishi Dyanand University, Rohtak; 5 th - 8 th Sem: Guru Jambheshwar University, Hisar	1997	67.05%	First
Higher Secondary	Board of School Education Haryana	1992	66.75%	First
Matriculation	Board of School Education Haryana	1990	77%	First

Professional Qualifications

- ✓ Qualified CEET [Haryana Common Engineering Entrance Test] for Engineering (May, 1993).

Awards/Achievements

- ✓ Awarded with Best Oral Presentation Track 2 ECE for the paper entitled ‘Preparation and Characterisation of Cellulose-based Aerogels using Cross-link Technique for Spillage Clean-up’ during DST-SERB sponsored International Conference on ‘IoT Based Recent Trends in Engineering and its Applications (IBRTEA- 2024)’ organised on 4th and 5th of April, 2024, at Khalsa College of Engineering and Technology, Amritsar, Punjab (India).
- ✓ Awarded for outstanding contribution in the field of Textile Chemistry during PEARL Foundation Educational Excellence Awards to Higher Education in India-2020, Madurai (19th June 2021).
- ✓ Awarded as ‘Young Engineering Award-2019’ at National Conference on “**SMART SUMMIT – 2020**” (Science, Medicine, Agriculture, Research and Technology) organized by Pearl Foundation, Bengaluru (15th March, 2020).
- ✓ Paper published in The Journal of the Textile Institute (Taylor and Francis) was shortlisted by **Nature Research**, for the Nature Research Award for Driving Global Impact in March 2020.
- ✓ Awarded a Best poster (2nd Prize) award in ‘International Conference Environmental Analysis India’ at New Delhi, May’ 2019.

Professional and Research experience

- ✓ >24 years of research experience (February, 2001 – till date) in the field of Textile Chemistry
(Textile Wet Processing of Natural as well as Synthetic Fibres/Fabrics, Dyeing and Finishing of textiles using Eco-friendly Materials: Natural Dyes and Natural fibres, Microbe Resistant textiles and Functional Clothing. Currently engaged in development of Assistive products for healthcare applications and active member of “Golden Jubilee Centre for Entrepreneurship and Innovation”, incubated at GNDU Amritsar, Working in the interdisciplinary areas of Surface Functionalization,)
- ✓ >24 years teaching experience [12 years in Department of Applied Chemical Sciences & Technology (12th February’ 2001 to 31st March, 2013), 9 years in Department of Chemistry (1st April, 2013 to 31st March 2022), and 3 years in Department of Apparel and Textile Technology (1st April, 2022 to till date), Guru Nanak Dev University, Amritsar.

Areas of research experience

- ✓ Textile Wet Processing of Natural as well as Synthetic Fibres/Fabrics, Dyeing and Finishing of textiles using Eco friendly Materials, Microbe Resistant textiles and Functional Clothing. Interdisciplinary areas of Surface Functionalization, Pretreatment Technology, Textile Dyeing, Textile Printing, Textile Finishing, Garment Processing, Synthesis of Plant based composite materials for oil spill cleanup.

Techniques Known

- ✓ Computer Colour Matching Spectrophotometer (Data Colour), Washcator, Crockmeter, Tensile strength Tester, All types of dyeing machinery operations, UV-Vis Spectrophotometer, Scanning electron microscope.

Research proposals submitted and grant received

S. No	Principal Investigator/ Co-Investigator	Title of the project	Funding Agency	Amount sanctioned	Duration of project
1	Dr. P. K. Pati Dr. Varinder Kaur	Development of elite cultivars of Withania somnifera and its Rapid Multiplication using Biotechnological Approaches	MHRD, Govt of India under the RUSA Scheme	Rs. 15,00,000/-	Ended (2019-2022)
2	Dr. Varinder Kaur	Fabrication of Biodegradable Hybrid Bamboo Origin Material Spilled Oil Cleanup Applications	Golden Jubilee Centre for Entrepreneurship and Innovation, Guru Nanak Dev University Amritsar (GJCEI)	Rs. 10,00,000/-	Ended (Oct, 2020-2022)
3	Dr. Varinder Kaur Dr. Palwinder Singh	Composites materials: Developing Antimicrobial Fabrics	DST-SERB Power Grant	Rs 30,00,000/-	Ended (5 th April, 2021-4 th October 2024)
4	Dr. Varinder Kaur Dr. Sachin Kumar	Replacement of Chlorine based Shrinkage resistant treatment with Eco-friendly finishing for Wool fiber	Jawandsons Pvt. Ltd, Ludhiana	Rs 4,16,000/-	Ongoing (Sanctioned upto June 2024)
5	Dr. P. K. Pati Dr. Varinder Kaur	New Age Eco-Friendly Product Development for Agri-Based Industries using Recycled Woolen Fabric	Punjab State Council for Science and Technology)	Rs 7,80,000/-	Ended (March 2024)

Research Guidance:

➤ Graduates & Undergraduates:

S.No	Number of students Enrolled/ Registered	Thesis submitted	Degree awarded
B-Tech (Textile Chemistry)	2	-	61
M. Sc. (Chemistry)	-	-	49

Ph.D. Guidance:**➤ Ph.D. Guided (3)**

S. No.	Name of the candidate	Title of Thesis	Name of Supervisor	Registration with effect from	Degree awarded
1	Er. Sachin Kumar Godara	Synthesis and Characterization of Zn^{2+} - Zr^{4+} Co-doped BaM, SrM, $Ba_{0.5}Sr_{0.5}M$ and Ca-doped BaM & SrM Hexaferrites	Dr. Ashwani Sood (Department of Chemistry, GNDU, Amritsar) Dr. Varinder Kaur (Department of Chemistry, GNDU, Amritsar) Dr. Sukhleen Bindra (Department of Electronics, GNDU, Amritsar)	17- 8- 2016	17-11-2021
2	Ms. Jaskaran Kaur	Assessment of Spatiotemporal Variability of Environmental Pollution of Buddha Nullah, Ludhiana (Punjab), India	Dr. Jatinder Kaur (Department of Bot. & Env. Sci., GNDU, Amritsar) Dr. Varinder Kaur (Department of Chemistry, GNDU, Amritsar)	17- 8- 2016	27-12-21
3	Ms. Samriti Vaid Datta	Treatment with wastewater contaminated with Ionic Dyes: Liquid Liquid extraction induced by reversed micelle followed by photo degradation	Dr. Varinder Kaur (Department of Chemistry, GNDU, Amritsar)	21-9-2018	Thesis Submitted 20-09-2024 Viva 21-03-2025

➤ Ph.D. Registered (6)

S. No	Name of the candidate	Title of Thesis	Name of Supervisor	Registration with effect from
1	Mr. Sombir	Search for anti-microbial dyes: A novel approach of sensitizing textiles against microbes	Dr. Varinder Kaur (Department of Chemistry, GNDU, Amritsar)	10-09-2021
2	Ms. Sheetal	Fabrication of Hybrid Magnetic Nanoferrite Composites: Environmental and spilled Oil Cleanup Applications	Dr. Varinder Kaur (Department of Chemistry, GNDU, Amritsar) Dr. Pawandeep Kaur Department of Electronics	10-09-2021

			GNDU, Amritsar	
3	Ms. Deepika Verma	Technique to incorporate ceramic powders along with natural dyes for enhancing the thermal insulation property of fabrics	Dr. Varinder Kaur Department of Apparel and Textile Technology, GNDU, Amritsar Dr. Sukhdeep Kaur Department of Electronics GNDU, Amritsar	14-2-2023
4	Ms Harpreet Aneja	Eco-friendly dyeing of ligno-cellulose Fibres to develop antimicrobial utility products for sustainable future	Dr. Varinder Kaur Department of Apparel and Textile Technology, GNDU, Amritsar	16-02-2024
5	Ms Ambica	Surface Modification of Polymeric Recycled Fabrics through Coating Methods for developing Radiation Absorption Clothing	Dr. Varinder Kaur Department of Apparel and Textile Technology, GNDU, Amritsar	16-02-2024
6	Ms Sapna Singh	Development and Optimization of Non Aqueous Dyeing Processes for Sustainable Textile Products: Exploring Solvent –Based Systems and Environmental Impact	Dr. Varinder Kaur Department of Apparel and Textile Technology, GNDU, Amritsar Dr. Mayank Dhar Dwivedi (Department of Bot. & Env. Sci., GNDU, Amritsar)	27-02-2025

Publications

➤ Published (83)

Journals (69)

1. Samriti Vaid, **Varinder Kaur**, Raj Kumar Arya , Bhavna Vaid and Devyani Thapliyal, 'Transforming agro-waste: sustainable adsorption of Novacron Red FN-2BL on surfactant-modified bamboo fibers, *Biomass Conversion and Biorefinery*, **2025**, 1-25. <https://link.springer.com/article/10.1007/s13399-025-06717-z>. ISSN: 2190-6823 (**Impact Factor: 3.7**)
2. Samriti Vaid, Sanyog Sharma, **Varinder Kaur**, Raj Kumar Arya, Bharat Bajaj, Bhavna Vaid, George D. Verros, Devyani Thapliyal, 'Making Use of Local Waste: Adsorptive Removal of Novacron Red FN-2BL Using CTAB-Aided Sodium Hydroxide–Pretreated Jute Fibers', *Journal of Engineering*, Volume **2025**, Article ID 5540616, 1-27, <https://doi.org/10.1155/je/5540616>. ISSN: 2314-4912 (**Impact Factor: 1.7**)

3. Sayed Tathir Abbas Naqvi, Charanjeet Singh, Sachin Kumar Godara, Rajshree B Jotania, **Varinder Kaur**, Ashwani Kumar Sood, 'Tailoring of structural, electrical, optical and impedance characteristics of Co^{2+} and Zr^{4+} doped strontium hexaferrites', *Ceramics International*, 51(2), January **2025**, 2079-2093. <https://doi.org/10.1016/j.ceramint.2024.11.185>. ISSN: 2190-6823 (**Impact Factor: 5.1**)
4. Pawandeep Kaur, P. Harshapriya, Deepak Basandrai, Amit Arora, **Varinder Kaur**, Anupinder Singh and Sukhleen Bindra Narang, 'Investigation of $\text{Ba}_{0.85}\text{La}_{0.15}\text{Fe}_{12-2x}(\text{CoTi})_x\text{O}_{19}/\text{CuO}$ composites in K-Band: Broadband microwave absorbers for 5G', *Materials Science and Engineering: B*, 313, March **2025**, 117888. <https://www.sciencedirect.com/science/article/abs/pii/S0921510724007177>; ISSN: 1873-4944 (**Impact Factor: 3.9**)
5. **Varinder Kaur**, Sukhdeep Kaur, Deepika Verma, Pawandeep Kaur, Sombir Jaglan and Manjit Sandhu, 'A comprehensive review on some natural dyes used as antimicrobial agents in textiles', *International Journal of Home Science*, 10(3): **2024**, 240-248. <https://doi.org/10.22271/23957476.2024.v10.i3d.1703>; ISSN: 2395-7476 (**RJF Impact Factor: 5.3**)
6. Sayed Tathir Abbas Naqvi, Charanjeet Singh, Sachin Kumar Godara, Rajshree B. Jotania, **Varinder Kaur**, Ashwani Kumar Sood, 'Tailoring of structural, electrical, optical and impedance characteristics of Co^{2+} and Zr^{4+} doped strontium hexaferrites', *Ceramics International*, 51(2), January **2025**, 2079-2093. <https://doi.org/10.1016/j.ceramint.2024.11.185> (**Impact Factor: 5.1**)
7. **Varinder Kaur**, Sukhdeep Kaur, Samriti Vaid, Yashmeen Dhaliwal, Sheetal, Sombir, Ramneek Singh Slaich and Deepika Verma, 'Oil Spill Cleanup: A Review', *International Journal of Science and Research archive (IJSRA)*, 13(2), **2024**, 2737–2754. <https://doi.org/10.30574/ijrsra.2024.12.2.1472> ISSN: 2582-8185. (**RJF Impact Factor: 8.2**)
8. Samriti Vaid, **Varinder Kaur**, Sanyog Sharma, Anupinder Singh, Bhavna Vaid, Raj Kumar Arya and GD Verros, 'Utilizing Local Waste: Sustainable Adsorption of Reactive Blue 235 on Surfactant-Modified Bamboo Fibers', *Journal of Engineering*, 12(4), **2024**, Article ID 8706884, 1-25, <https://doi.org/10.1155/2024/8706884>. ISSN: 2314-4904 (**Impact Factor: 1.7**).
9. Pawandeep Kaur, **Varinder Kaur**, Sukhdeep Kaur, Rupendeep Kaur, Manjit Sandhu, Himali Sarangal, Neha Aggarwal, Sukhleen Bindra Narang, 'Enhanced dielectric properties of co-substituted M-type Sr-La hexaferrite synthesized by citrate auto-combustion method', *Materials Today: Proceedings*, May **2024**. <https://doi.org/10.1016/j.matpr.2024.04.107> (**Site Score: 4.9**).
10. Ankit Jain, Charanjeet Singh, Sachin Kumar Godara, Rajshree B Jotania, **Varinder Kaur**, Ashwani Kumar Sood, 'Investigating grain and grain boundary effects on charge transport and dielectrics in $\text{BaCo}_x\text{Al}_x\text{Fe}_{12-2x}\text{O}_{19}$

- nanoferrites', *Physica B: Condensed Matter*, 690(1), **2024**, 416211. <https://doi.org/10.1016/j.physb.2024.416211>. ISSN: 0921-4526 (**Impact Factor: 2.8**).
11. Sayed Tathir Abbas Naqvi, Charanjeet Singh, Sachin Kumar Godara, Rajshree B Jotania, **Varinder Kaur**, Ashwani Kumar Sood, 'Functionalization of morphology in optimization of dielectric, electrical/impedance modulus, and relaxation mechanisms of Co-Ni doped M-type Sr nanoferrites', *Physica Scripta*, 99(5), **2024**, 055558. DOI 10.1088/1402-4896/ad3aaf. ISSN:1402-4896 (**Impact Factor: 2.6**).
 12. Ankit Jain, Charanjeet Singh, Sachin Kumar Godara, Rajshree B Jotania, **Varinder Kaur**, Ashwani Kumar Sood, 'Modulating electrical response and impedance in Co–Cr substituted M-phase barium hexaferrites: Examining microstructure, grain boundaries, charge transport, and computational modeling', *Ceramics International*, 50(21-B), **2024**, 41999-42014. <https://doi.org/10.1016/j.ceramint.2024.08.044>. (**Impact Factor: 5.1**)
 13. Ankit Jain, Charanjeet Singh, Sachin Kumar Godara, Rajshree B Jotania, Dipti Parmar, **Varinder Kaur**, Ashwani Kumar Sood, 'Structural elucidation, morphological properties, dielectric properties and their physical interpretation of cerium-substituted cobalt and barium-based M-type hexagonal nano ferrites', *Physica Scripta*, 99(8), **2024**, 085952, DOI 10.1088/1402-4896/ad5ed4. (**Impact Factor: 2.6**)
 14. Sheetal Vermani, Pawandeep Kaur and **Varinder Kaur**, 'Characterization of Thermally Stable Bamboo Fiber Sheet Loaded with Cobalt Ferrite Nanoparticles', **2024**, 53, 1796–1806. <https://doi.org/10.1007/s11664-024-10917-0>. (**Impact Factor: 2.2**).
 15. Sudesh Rani, Sheetal Vermani, **Varinder Kaur** and Palwinder Singh, 'Targeting aromatase to restrain oestrogen production and developing efficacious interventions against ER-positive cancer', *European Journal of Medicinal Chemistry*, 265, **2024**, 116111, <https://doi.org/10.1016/j.ejmech.2023.116111>. (**Impact Factor: 6.0**).
 16. **Varinder Kaur**, Palwinder Singh, Sombir Jaglan, Bhavika Kathait, Sheetal & Pawandeep Kaur, 'Sensitising natural wool with green and brown coffee using a facile extraction method to optimise dye process parameters', *Natural Product Research*, December **2023**, <https://doi.org/10.1080/14786419.2023.2301016>. (**Impact Factor: 2.488**).
 17. Sachin Kumar Godara, Rohit Jasrotia, **Varinder Kaur**, Parambir Singh Malhi, Jahangeer Ahmed, Abhishek Kandwal, Swati Verma, Mandeep Singh, Paramjit Kaur, Rahul Kumar Dhaka, Kirti Chuchra, Ashwani Kumar Sood, Karuna Sharma, Sarita Dhaka, Ankit Verma, 'A sustainable approach for the synthesis of

- PbFe₁₂O₁₉ materials using tomato pulp as a fuel: Structural, morphological, optical, magnetic, and dielectric traits', *The Journal of Magnetism and Magnetic Materials*, 573, **2023**, 170643, <https://doi.org/10.1016/j.jmmm.2023.170643>. (**Impact Factor: 2.5**).
18. Pawandeep Kaur, Deepak Basandari, HarshaPriya, Mandeep Kaur, Sukhleen Bindra Narang, Shalini Bahel, Amit Arora, Sachin Kumar Godara, **Varinder Kaur**, 'Composites of Co-Ti-Mn Substituted M-Type Barium Hexaferrite and CuO: Structural, Optical, Electromagnetic and X-Band Absorption for Commercial Applications', *Journal of Magnetism and Magnetic Materials*, **2023**, 588(A), 171402, <https://doi.org/10.1016/j.jmmm.2023.171402>, (**Impact Factor: 2.5**).
 19. Sheetal, Pawandeep Kaur, **Varinder Kaur**, 'Composite Magnetic Sheet as Sorbent for oil spill clean-up', *Materials Today Proceedings (Elsevier)*, **2023**, 78(4), 780-785. <https://doi.org/10.1016/j.matpr.2022.10.243> (**Cite Score: 4.9**).
 20. Sachin Kumar Godara, **Varinder Kaur**, Rohit Jasrotia, Sourbh Thakur, Virender Pratap Singh, Jahangeer Ahmed, Saad M Alshehri, Bidhan Pandit, Mandeep Singh, Paramjit Kaur, J Mohammed, Mankamal Preet Kaur, Ashwani Kumar Sood, 'Effect of Ca²⁺ exchange at Ba²⁺ site on the structural, dielectric, morphological and magnetic traits of BaM nano-hexaferrites', *Journal of Magnetism and Magnetic Materials*, 564, **2022**, 170049. <https://doi.org/10.1016/j.jmmm.2022.170049>. (**Impact Factor: 2.5**).
 21. Sanyog Sharma, Gurudutt Dubey, Balkaran Singh Sran, Mansi Sharma, **Varinder Kaur**, Sukhraj Kaur, Prasad V. Bhartam, and Geeta Hundal, 'Microwave-Induced Synthesis of Nano-sized pyridine based Schiff Bases and Their Application as efficient antimicrobial textile dyeing agents: Experimental and Theoretical Approach', *ChemistrySelect*, 7(45), **2022**, e202203109, DOI: [10.1002/slct.202203109](https://doi.org/10.1002/slct.202203109) (**Impact Factor: 2.24**).
 22. **Varinder Kaur**, Bibhu Parsad Dash, Sheetal Vermani and Anjali Devi, 'Extraction, Quantification and Characterization of Lignin extracted from Bamboo Biomass', September 23, 2022 (online), *Materials Today Proceedings (Elsevier)*, **2022**, 28(1). <https://doi.org/10.1016/j.matpr.2022.09.116> (**Cite Score: 4.9**).
 23. Minaxi S. Maru, **Varinder Kaur**, Jagriti Behal, Samriti Vaid, 'Synthesis, Characterization, Textile Dyeing Study and Antimicrobial Activity of 3-(1H-benzo[d]imidazol-2-yl)-2-chloroquinoline', *Current Chinese Chemistry (Bentham Science Publisher)*, 2, **2022**, 40-44, <https://www.eurekaselect.com/article/125622> (ISSN: 2666-0008).
 24. Sachin Kumar Godara, Nomita Nomita, **Varinder Kaur**, A. K. Srivastava, Deepak Basandrai, Jahangeer Ahmed, J. Mohammed; Mandeep, Singh; Amir Mehtab, Tokeer Ahmad, Rahul Kumar Dhaka, Pradip K. Maji and Ashwani

- Kumar Sood, 'Effect on Magnetic, Morphological and Structural Properties of $\text{Zn}^{2+}\text{-Zr}^{4+}$ Substituted SrM for Permanent Magnet based Appliances' *Journal of Magnetism and Magnetic Materials*, 560, 2022, 169626. <https://doi.org/10.1016/j.jmmm.2022.169626> (Impact factor: 2.5).
25. Sachin Kumar Godara; Sneha, **Varinder Kaur**, Parambir Singh Malhi, Saad M Alshehri, Mandeep Singh, Swati Verma; Charanjeet Singh, Pradip K Maji, Pragati Kumar, Asiya M Tamboli and Ashwani Kumar Sood, 'Sol-gel auto-combustion synthesis of double metal-doped barium hexaferrite nanoparticles for data storage and permanent magnet applications, *Journal of Solid-State Chemistry*, 312, 2022, 123215. <https://doi.org/10.1016/j.jssc.2022.123215> (Impact factor: 3.2).
 26. Sachin Kumar Godara, Mankamal Preet Kaur, **Varinder Kaur**, Parambir Singh Malhi, Mandeep Singh, Swati Verma, Rohit Jasrotia, Jahangeer Ahmed, Mohaseen S. Tamboli and Ashwani Kumar Sood, 'Investigation of microstructural and magnetic properties of Ca^{2+} doped strontium hexaferrite nanoparticles', *Journal of King Saud University-Science*, 34(4), 2022, 101963. <https://doi.org/10.1016/j.jksus.2022.101963>. (Impact factor: 3.7).
 27. Jaskaran Kaur, Sartaj Ahmad Bhat, Navdeep Singh, Sandip Singh Bhatti, **Varinder Kaur** and Jatinder Kaur Katnoria, 'Assessment of the Heavy Metal Contamination of Roadside Soils Alongside Buddha Nullah, Ludhiana, (Punjab) India', *International Journal of Environmental Research and Public Health*, 2022, 19(3), 1596. <https://doi.org/10.3390/ijerph19031596> (Cite Score: 7.3).
 28. Alvine Sandrine Ndinchout, D. P. Chattopadhyay, Nyegue Maximilienne Ascension, **Varinder Kaur**, Narpinder Singh and Moundipa Fewou Paul, 'Incorporation of *Dacryodes macrophylla* fruits extract on quality and organoleptic acceptability of muffins', *Foods and Raw Materials*, 2022, 10(1), 27-39. <http://jfrf.ru/en/> (Cite Score: 3.7).
 29. Sachin Kumar Godara, Ashwani Kumar Sood, Shilpia, Arun Kumar, **Varinder Kaur**, Parambir Singh Malhi, Mandeep Singh, Swati Verma and Khalid Mujasam Batoo, 'Effect of varying tartaric acid to metal nitrate ratio on the structure, morphology and magnetic properties of $\text{BaZn}_{0.2}\text{Zr}_{0.2}\text{Fe}_{11.6}\text{O}_{19}$ samples', *Ceramics International*, 2022, 48(6), 7997-8003, <https://doi.org/10.1016/j.ceramint.2021.11.346> (Impact factor: 5.1).
 30. Sachin Kumar Godara, Mandeep Singh, **Varinder Kaur**, S.B.Narang, Jahangeer Ahmed and Ashwani Kumar Sood, 'Effect of calcium solubility on structural, microstructure and magnetic properties of $\text{SrFe}_{12}\text{O}_{19}$ ', *Physica B: Condensed Matter*, 2022, 628 (March), 413560, <https://www.sciencedirect.com/science/article/abs/pii/S0921452621007146> (Impact factor: 2.8).
 31. Jaskaran Kaur; **Varinder Kaur**; Yogesh B. Pakade and Jatinder Kaur Katnoria, 'A study on water quality monitoring of Buddha Nullah, Ludhiana, Punjab (India)',

Environmental Geochemistry and Health (Springer), **2021**, 43(7), 2699–2722.
<https://doi.org/10.1007/s10653-020-00719-8>. (Impact Factor: 4.0).

32. Jagriti Behal, **Varinder Kaur**, Agnieszka Janiak, Lovepreet Singh and Ranjan Khunt, 'Facile sonochemical synthesis of nano-sized cobalt(III) complex salt and their application as a mordant dye', *Journal of Molecular Structure*, (Elsevier), 1230, April **2021**, 129896. <https://doi.org/10.1016/j.molstruc.2021.129896>. (Impact Factor: 4.0).
33. Jaskaran Kaur, Sandip Singh Bhatti, Sartaj Ahmad Bhat, Avinash Kaur Nagpal, **Varinder Kaur** and Jatinder Kaur Katnoria, 'Evaluating Potential Ecological Risks of Heavy Metals of Textile Effluents and Soil Samples in Vicinity of Textile Industries', *Soil System*, (MDPI) **2021**, 5(4), 63. <https://www.mdpi.com/2571-8789/5/4/63#>. (Impact Factor: 2.9)
34. Sachin Kumar Godara, Mandeep Singh, **Varinder Kaur**, S. B. Narang and Ashwani Kumar Sood, 'Effect of calcium solubility on structural, microstructural and magnetic properties of M- type barium hexaferrite', *Ceramics International* (Elsevier) April, **2021**, 47(14). 1-8. DOI: [10.1016/j.ceramint.2021.04.048](https://doi.org/10.1016/j.ceramint.2021.04.048). (Impact Factor: 5.1).
35. Sachin Kumar Godara, **Varinder Kaur**, Kirti Chuchra, S.B. Narang, Gurpreet Singh, Mandeep singh, Aanchal chawla, Swati Verma, Gopala Ram Bhadu, Jayesh C. Chaudhari, P.D. Babu, Ashwani Kumar Sood, Impact of Zn^{2+} - Zr^{4+} substitution on M-type Barium Strontium Hexaferrite's structural, surface morphology, dielectric and magnetic properties, *Results in Physics* (Elsevier) **2021**, 22 (March), 1-10. <https://doi.org/10.1016/j.rinp.2021.103892>. (Impact Factor: 4.4).
36. Sachin Kumar Godara, **Varinder Kaur**, S.B. Narang, Gurpreet Singh, Mandeep Singh, Gopala Ram Bhadu, Jayesh C. Chaudhari, P.D. Babu and Ashwani Kumar Sood, 'Tailoring the magnetic properties of M-type strontium ferrite with synergistic effect of co-substitution and calcinations temperature', *Journal of Asian Ceramic Societies* (Taylor and Francis online), **2021**, 9(2) 686-698. <https://doi.org/10.1080/21870764.2021.1911059>. (Impact factor: 2.2)
37. Sachin Kumar Godara, Rahul Kumar Dhaka, Navpreet Kaur, Parambir Singh Malhi, **Varinder Kaur**, Ashwani Kumar Sood, Shalini Bahel, Gopala Ram Bhadu, Jayesh C. Chaudhari, Ishita Pushkarna and Mandeep Singh, 'Synthesis and characterization of Jamun pulp based M-type barium hexaferrite via sol-gel auto-combustion', *Results in Physics*, **2021**, 22(March), 1-7. <https://doi.org/10.1016/j.rinp.2021.103903> (Impact factor: 4.4)
38. Priya Gupta, Sanyog Sharma, Sachin Kumar Godara and **Varinder Kaur**. 'Synthesis of Fluorescein dye using Microwave Radiations and its Application on Textile Substrates" *FIBRES & TEXTILES in Eastern Europe* (SCImago), **2021**, 29, 2(146), 100-105. DOI: 10.5604/01.3001.0014. (Impact Factor: 1.123).

39. Sachin Kumar Godara, Supinder Kaur, **Varinder Kaur**, Ashwani Kumar Sood, Mandeep Singh, Ishita Pushkarna, Gopala Ram Bhadu and Jayesh C. Chaudhari, 'Effect of co-substitution of Zn^{2+}/Zr^{4+} on Surface Morphology, Structure and Magnetic Properties of $BaZn_x Zr_x Fe_{12-2x}O_{19}$ ', *Journal of Physics: Conference Series* (IOP Sciences), **2020**, 1531 (012097), 1-8. <https://doi.org/10.1016/J.RINP.2021.103892>. (Impact Factor: 0.56).
40. Ravleen, Sachin Kumar Godar, Baljinder Kaur, **Varinder Kaur**, Ashwani Kumar Sood, Parambir Singh Malhi, Gopala Ram Bhadu, Ishita Pushkarna and Mandeep Singh, 'Characterization of M-type barium hexaferrite synthesized using potatoes as natural fuel', *Materials Today Proceedings* (Elsevier), **2020**, 28(1), 1-3. <https://doi.org/10.1016/j.matpr.2019.12.056> (Cite Score: 4.9).
41. Sachin Kumar, Parambir Singh Malhi, **Varinder Kaur**, Ashwani Sood, Sukhleen Bindra Narang, Gopala Ram Bhadu, Jayesh Chaudhari, Ishita Pushkarna, Mandeep Singh, 'Effect of calcination temperature on structural, magnetic and surface morphological properties of $BaZn_{0.6}Zr_{0.6}Fe_{10.8}O_{19}$ ', *AIP Conference Proceedings*, **2020**, 2220 (1). <https://doi.org/10.1063/5.0001363> (Impact Factor: 0.40).
42. Sachin Kumar, **Varinder Kaur**, Ashwani Sood, Gopala Ram Bhadu, Jayesh Chaudhari, Sukhleen Bindra Narang, 'Effect of different fuel combination on structure and properties of M type hexaferrite $BaZn_{0.2}Zr_{0.2}Fe_{11.6}O_{19}$ ', *AIP Conference Proceedings*, **2019**, 2142(1): <https://doi.org/10.1063/1.5122590>. (Impact Factor: 0.40).
43. Sachin Kumar Godara, **Varinder Kaur**, S B Narang, Mandeep Singh, Gopala Ram Bhadu, Jayesh C Chaudhari, R K Mudsainiyan and Ashwani Kumar Sood, 'Tunable M-type nano barium hexaferrite material by Zn^{2+}/Zr^{4+} co-doping', *Materials Research Express* (IOP science), **2019**, 6(11), 116111 (1-11). [doi:10.1088/issn.2053-1591](https://doi.org/10.1088/issn.2053-1591). (Impact Factor: 2.3).
44. Sachin Kumar Godara, Harsimranjeet Singh, Parambir Singh Malhi, **Varinder Kaur**, S.B.Narang, Ashwani Kumar Sood, Gopala Ram Bhadu and Jayesh C. Chaudhari. 'Synthesis and Characterization of Zn^{2+} - Zr^{4+} Substituted Barium Hexaferrite by Sol Gel Auto Combustion Method', *Materials today: Proceedings* (Elsevier), **2019**, 17(1), 371-379. [doi:10.1016/j.matpr.2019.06.444](https://doi.org/10.1016/j.matpr.2019.06.444) (Cite Score: 4.9).
45. **Varinder Kaur**, D. P. Chattopadhyay, Satindar Kaur, Sachin Kumar Godara, Sanyog Sharma, Simran Kaur, Amanjit kaur and Saurabh Garg, 'A Review on Preparatory Processes of Bamboo Fibres for Textile Applications', *Journal of Textile Science & Engineering*, **2019**, 9(2), 1-10. <https://www.hilarispublisher.com/open-access/a-review-on-preparatory-processes-of-bamboo-fibres-for-textile-applications.pdf> (Impact Factor: 2.22).

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47. Alvine Sandrine Ndinchout, D. P. Chattopadhyay, Moundipa Fewou Paul, Nyegue Maximilienne Ascension, **Varinder Kaur** and Sukhraj Kaur, 'Studies on dyeing and bacterial resistance of *Dacryodes macrophylla* extract on woollen fabric', 'Journal of Applied and Natural Science' (**UGC**), **2019**, 11(1), 205 – 210. DOI <https://doi.org/10.31018/jans.v11i1.1993> (**Impact Factor 2019: 4.84; Impact Factor 2019: 0.1**); Now it is indexed in Scopus and part of UGC-CARE List Group II.
48. **Varinder Kaur**, D. P. Chattopadhyay, Satindar Kaur and Mandeep Kaur, 'Fibrous Raw Material of Bamboo Origin with Improved Fibrillation and Spinnability', *The Journal of the Textile Institute* (**Taylor and Francis**), **2019**, 110(6), 832-837. <https://doi.org/10.1080/00405000.2018.1529214> (**Impact Factor: 1.86**).
49. **Varinder Kaur**, Baljinder Kaur, Karanjeet Kaur, Mandeep Kaur and Supreet Kaur, 'Preparation and Characterisation of Charcoal Material Derived from Bamboo for the Adsorption of Sulphur Contaminated Water', *London Journals Press*, **2018**, 18(2), 41-49. <https://journalspress.com/preparation-and-characterisation-of-charcoal-material-derived-from-bamboo-for-the-adsorption-of-sulphur-contaminated-water/> (**Impact Factor: 0.615**).
50. Amandeep Singh, **Varinder Kaur** and R.S.S.Kaler, 'A review on dietary fiber in cereals and its characterization', *Journal of Applied and Natural Science*, (**UGC**), **2018**, 10(4), 1-10. <https://journals.ansfoundation.org/index.php/jans/article/view/1894> (**Impact Factor 2019: 4.84; Impact Factor 2019: 0.1**) Now it is indexed in Scopus and part of UGC-CARE List Group II.
51. Jagriti Behal, **Varinder Kaur**, Jakub Mrzyglód, Marcin Hoffmann, Agnieszka Janiak, Karanjeet Kaur and Ranjan Khunt, 'Synthesis and Characterization of Rod Like Nano-sized Cobaltamine Complexes as Textile Dyeing Agents', *ChemistrySelect* (Wiley online Library), **2018**, 3, 11627-11633. <https://doi.org/10.1002/slct.201802593> (**Impact Factor: 1.9**).
52. **Varinder kaur**, D.P.Csihattopadhyay, Satindar Kaur and Karanjeet Kaur, 'Study on the performance of bamboo fibre modified with different concentrations of sodium hydroxide and chlorine containing agents', *Journal of Textile Science and*

Engineering, **2018**, 8(3), 1-8. DOI:[10.4172/2165-8064.1000362](https://doi.org/10.4172/2165-8064.1000362) (Index Copernicus value: 83.27). ISSN: 2165-8064.

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54. Saurabh Garg, Munish Arora, Gagandeep Kataria, Sandeep Singh Billowria and **Varinder Kaur**, 'Color Evaluation of Wool and Silk Fabrics using Microbial Sludge from Actinomycete Bacteria', *International Journal of Engineering and Innovative Technology (IJEIT)*, **2017**, 7(5), 35- 38. DOI:[10.17605/OSF.IO/6SBM4](https://doi.org/10.17605/OSF.IO/6SBM4) (**Impact Factor: 1.913**)
55. Ritu Bala Jagriti Behal, **Varinder Kaur**, Subheet Kumar Jain, Riveka Rani, Rajesh Kumari Manhas, Vinit Prakash, 'Sonochemical synthesis, characterization, antimicrobial activity and textile dyeing behavior of nano-sized cobalt(III) complexes', *Ultrasonics Sonochemistry (Elsevier)*, **2017**, 35(A), 294- 303. <https://doi.org/10.1016/j.ultsonch.2016.10.005> (**Impact Factor: 8.7**)
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57. **Varinder Kaur**, Extraction of Bamboo Fibres for Textile Applications, Fashion Design and Textile Technology, March **2015**, 14-17. (ISSN: 0010-1826)
58. **Varinder Kaur** and Sourabh Sharma, 'Studies of the Dyeing Behavior of Natural Dyes on Pre-mordanted Regenerated Bamboo yarn', *Colourage*, March **2015**, 38-48. (ISSN: 0010-1826; **Impact Factor:0.03**)
59. **Varinder Kaur**, 'Dyeing of Cotton with Tea as a natural dye', *International Journal of Engineering Innovation and Research (IJEIR)*, **2015**, 4(1), 184-187. https://ijeir.org/administrator/components/com_jresearch/files/publications/IJEIR-1381_final.pdf (ISSN: 2277-5668; **Impact Factor: 3.27**; SJIF-3.121; UIF- 1.1094)
60. Robin, Ashwani Kumar Thukral and **Varinder Kaur**, 'Textile Application of Natural Colourant from the Roots of *Eichhornia crassipes* (Mart.) Solms', *International Journal of Scientific and Research Publications*, **2015**, 5(2), 1-11.

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https://ijeir.org/administrator/components/com_jresearch/files/publications/IJEIR_1145_Final.pdf (ISSN: 2277-5668; **Impact Factor: 3.27**; SJIF-3.121; UIF-1.1094)
62. **Varinder Kaur**, D. P. Chattopadhyay and Satindar Kaur; 'Study on Extraction of Bamboo Fibres from Raw Bamboo Fibres Bundles Using Different Retting Techniques' *Textiles and Light Industrial Science and Technology (TLIST)*, **2013**, 2(4),174-179.
<file:///C:/Users/Office/AppData/Local/Temp/174179%20TLIST10064.pdf> (ISSN Online: 2304-9421)
63. **Varinder Kaur**, Lovleen, Ishan Batish and Sukhdeep Singh, 'Application and Properties of Tea as natural dye on Polyester', *Hosiery and Textile Journal*, March- April **2013**, 14-16. (ISSN: 0018-5388)
64. Satindar Kaur, D. P. Chattopadhyay and **Varinder Kaur**, 'Dyeing of Bamboo with Tea as a natural dye;', *Research Journal of Engineering Sciences*, **2012**, 1(1), 21-26. <http://www.isca.in/IJES/Archive/v1/i4/4.ISCA-RJEngS-2012-069.pdf> (ISSN: 2278 - 9472; **Impact Factor: 3.220**)
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66. **Varinder Kaur**, Gourav Gupta, Shikha Khanna, Amanpreet Singh and Gagandeep Singh, 'Lyocell Silver lining to your wardrobe', *Hosiery and Textile Journal*, December **2008**, 13-17. <https://portal.issn.org/resource/ISSN/0018-5388> (ISSN: 0018-5388)
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https://www.researchgate.net/publication/286849952_Solvent.assisted_dyeing_of_polyester_with_Henna (ISSN: 0010-1826; **Impact Factor:0.03**)
68. **Varinder Kaur** and D.P.Chattopadhyay, 'Environmentally friendly bleaching of Jute', *Textile Asia*, April **2006**, 28-30. (ISSN: 0049-3554; SJR: 0.104)

https://www.researchgate.net/publication/293566092_Environmentally_friendly_bleaching_of_jute.

69. D. P. Chattopadhyay and **Varinder Kaur**, ‘Garment Printing-Today’s Trend’, *Man-Made Textiles in India*, August **1996**, 283-286. (ISSN: 0377-7537; (SJR): 0.111; Impact Factor: 0.03) <https://ores.su/en/journals/man-made-textiles-in-india/>

Communicated (1)

1. Samriti Vaid, Varinder Kaur^{*}, Sanyog Sharma, Anupinder Singh, Bhawana Vaid, “Cost Effective Removal of reactive dyes through liquid-liquid extraction induced by reverse micelles (communicated).

Book chapters (5)

1. D. P. Chattopadhyay and **Varinder Kaur**. (2017) ‘Oil Spill Cleanup by Textiles’, Chapter 2, Volume 4 of "Handbook of Composite from Renewable Materials" published by Wiley-Scrivener. pp 27- 41. ISBN: 978-1-119-22367-2. DOI: [10.1002/9781119441632.ch64](https://doi.org/10.1002/9781119441632.ch64)
2. Jaskaran Kaur, **Varinder Kaur** and Jatinder Kaur Katnoria, (2021) ‘Nitric oxide mediated modulation of antioxidative responses under salinity stress in different plant species: a review’, Book Edition: “Environmental Stress Physiology of Plants” to be published by Bentham Science. pp 89-106. ISBN: 9781681087917. DOI: [10.2174/9781681087900121010010](https://doi.org/10.2174/9781681087900121010010)
3. Anju Choudhery, Kiran Choudhery, **Varinder Kaur**, Parambir Singh Malhi and Sachin Kumar Godara, (2021) Impact of Demonetization on Textile and Apparel Industry. In: Midha V., Mukhopadhyay A. (eds) Recent Trends in Traditional and Technical Textiles. Springer, Singapore. pp 209-221. https://doi.org/10.1007/978-981-15-9995-8_19.
4. **Varinder Kaur**, Palwinder Singh, D. P. Chattopadhyay, Sombir Jaglan, Sachin Kumar Godara, Sukhdeep Kaur, Sheetal, Alvine Sandrine Ndinchout and Deepika Verma, (2024) Functional Coatings for Biomedical, Energy and Environmental Applications, ‘Chapter 25: Antimicrobial Coatings for Textiles using Natural Dyes’, Wiley,.
5. Ankit Jain, Charanjeet Singh, Sachin K Godara, Rajshree B Jotania, **Varinder Kaur**, Ashwani K Sood, (2024) Chapter ‘Tailoring of Morphology and Electrical Properties of Hexagonal Ferrites’, Book: Intelligent Circuits and Systems for SDG 3–Good Health and well-being, CRC Press (Taylor and Francis Group), , 281-287. (eBook ISBN 9781003521716).

Book Published (1)

1. **Varinder Kaur**, 'Studies on application of Natural Dyes on Natural Fibres', 1st Edition, ISBN: 978-613-9-95300-4, LAP Lambert Academic Publishing. SRLBalti, 4 Industrialala Street, Moldova, Europe. (2019-07-05). <https://www.lap-publishing.com/catalog/details/store/gb/book/978-613-9-95300-4/studies-on-application-of-natural-dyes-on-natural-fibres>

Conference Proceedings: (6)

1. Sachin Kumar Godara, Parambir Singh Malhi, **Varinder Kaur**, Ashwani Kumar Sood, Sukhleen Bindra Narang, Gopala Ram Bhadu, Jayesh C. Chaudhari, Ishita Pushkarna, and Mandeep Singh. 'Effect of calcination temperature on structural, magnetic and surface morphological properties of $\text{BaZn}_{0.6}\text{Zr}_{0.6}\text{Fe}_{10.8}\text{O}_{19}$, 3rd International Conference on Condensed Matter and Applied Physics (ICC-2019) AIP Conf. Proc. 2220, 020152-1–020152-4; <https://doi.org/10.1063/5.0001363>. (ISSN: 00001984, 00002005, 00001983)
2. **Varinder Kaur** and D.P.Chattopadhyay, 'Use of Bamboo Fibre in Textile Industry', The 13th Asian Textile Conference Geelong, Deakin University, Victoria, **Australia**, 3rd–6th November, **2015**, 637- 641. **(Oral Presentation)**. <https://issuu.com/chrisrimmer8/docs/atc-13conferenceproceedingsvolume2>
3. **Varinder Kaur**, 'Bamboo as Textile Fibre', Emerging Trends in Traditional and Technical Textiles'2014 (ICETT), 11th-12th April, **2014**, Department of Textile Technology, Dr. B R Ambedkar National Institute of Technology, Jalandhar. **(Oral Presentation)**. <https://conferencealerts.com/show-event?id=127610>
4. D.P.Chattopadhyay, Satindar Kaur & **Varinder Kaur**; Chemistry and Introduction to Bamboo fibre', National Seminar on Nonwovens and Technical Textiles', Dr B R Ambedkar National Institute of Technology, Jalandhar, 191-193, October 5-6, **2012**. https://www.nitj.ac.in/nitj_files/links/Textile_Department_Brochure_55295.pdf
5. Sourabh Sharma and **Varinder Kaur**, 'Extracorporeal Device for Medical Textile', National Seminar on Nonwovens and Technical Textiles'Dr B R Ambedkar National Institute of Technology, Jalandhar, 191-193, October 5-6, **2012**. https://www.nitj.ac.in/nitj_files/links/Textile_Department_Brochure_55295.pdf
6. Deepika Sharma, **Varinder Kaur** and Rajesh Kumari Manhas. 'Dyeing Properties of Natural Colorants from Streptomyces spp., 2-3, UGC Sponsored National Seminar organized by Department of Botanical & Environmental Sciences Guru Nanak Dev University, Amritsar, March 21-22, **2011**.

Patents (2):

1. Manik Sharma, Ashwani Kumar Thukral, Renu Bhardwaj, **Varinder Kaur** and Amarjit Singh, 'Mordant Composition for Textile Dyeing', Patent Number: 312899, Application Number: 201611009083A, Awarded on 22-4-2016. (Agency/Country: India; Certified and granted).
<https://www.quickcompany.in/patents/mordant-composition-for-textile-dyeing>
2. Jagriti Behal, **Varinder Kaur** and Ranjan Khunt, 'Rod like nano-sized azido penta ammine cobalt (III) complexes as textile dyeing agents', Patent Number: 368712; Patent Application Number: 201821035858, Awarded on 24-9-2018. (Agency/Country: India; Published in paper form).
http://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4857_1/Part-1.pdf

Conferences/Symposia/Congress/workshops attended and presented

1. Attended *Symposium* on "National Bioorganic Symposium-7" held at Guru Nanak Dev University, Amritsar, organized by *National Bioorganic* in 9th-10th November, 2001
2. Attended *Symposium* on "Recent Trends in Textile Chemistry and Technology" held at Guru Nanak Dev University, Amritsar, organized by British Council, 1st May, 2002.
3. Attended 'International Conference on Emerging Trends in Polymers & Textile.' in Dept. of Textile Technology, IIT Delhi, 7th - 8th January, 2005 at India Habitat center, New Delhi.
4. Attended and presented poster on "Studies on the effect of chemicals on physical and dyeing behaviour of Bamboo fibre" in 15th Punjab Science congress conference on Science in the 21st Century held in Guru Nanak Dev University, Amritsar from 7th- 9th February, 2012.
5. Attended and presented poster on 'Bamboo Fibres – Today's Trend' in International Conference on 'Innovative Methods in Textile Manufacturing and Clothing' held in TIT&S, Bhiwani from 10th -11th February, 2012.
6. Attended and presented poster on 'Dyeing of Wool with Tea as Natural Dye' in UGC Sponsored 'National Seminar on Perspectives in Plant and Environmental Sciences held at Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar from 11th-12th March, 2014.

7. Attended and presented poster on 'Dyeing of Wool with Tea as Natural Dye', in IVth NSACS (Advances in Chemical Sciences to commemorate the National Science Day) Symposium held at Department of Chemistry, Guru Nanak Dev University from 27th-28th February, 2014.
8. Attended and presented poster on 'Extraction of Bamboo Fibre Bundles by Delignification Process' in 21st conference of National Magnetic Resonance Society held in Department of Chemistry, Guru Nanak Dev University, Amritsar from 6th – 9th March, 2015.
9. Attended and presented poster on 'Use of Unprocessed Raw Cotton as Sorbent for Crude Oil Spills' in Vth NSACS (National Symposium on Advances in Chemical Sciences) held at Department of Chemistry, Guru Nanak Dev University, Amritsar from 2nd -3rd February, 2016.
10. Attended and presented poster on 'Crude Oil Spill Cleanup using Textile Fibers' in International Conference on Environmental Mutagenesis, Carcinogenesis and Health held at Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar from 17th – 19th February, 2016.
11. Attended One day Symposium on Recent Trends in Chemical Sciences held at Department of Chemistry, Guru Nanak Dev University, Amritsar on 27th January, 2017.
12. Attended and presented poster on 'Bamboo Sorbents in Oil Spill Cleanup' in Recent Trends in Plant and Environmental Sciences (NSPES- 2017) held in Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar from 9th-10th February, 2017.
13. Attended and presented poster on 'Adsorption of Spilled Oil onto Lignocellulosic Fibres for promising Cleanup application' in VIth NSACS (Advances in Chemical Sciences) held in Department of Chemistry, Guru Nanak Dev University, Amritsar from 6th-7th March, 2017,
14. Attended and presented poster on 'Effects of industrialization on different ecosystems in Ludhiana region of Punjab (India), in VIth NSACS (Advances in Chemical Sciences) held in Department of Chemistry, Guru Nanak Dev University, Amritsar from 6th-7th March, 2017.
15. Attended and presented poster on 'Removal of hydrolyzed dye from textile effluent by chemically modified Sugarcane Bagasse and Bamboo' in National Seminar on 'Emerging Trends in Plant and Environmental Sciences' held in Department of

Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar from 29th- 30th March, 2018.

16. Attended and presented poster on ‘Illuminating natural wool with antimicrobial dyes obtained from *D. macrophylla*’ in National conference ‘Plant Sciences: Network in Health and Environment’ held in Post Graduate Department of Botany, Khalsa College Amritsar from 30th-31st October, 2018.
17. Attended and presented poster on ‘Heavy metal bioaccumulation potential of some plant species grown in the environ of two textile industries’ in International Conference on Frontiers in Sustainable Agriculture and Biological Sciences (FSABS-2020) held in Department of Botany, Pariyar University, Salem (Tamil Nadu) from 16th-17th March, 2020.
18. Attended and presented the poster on ‘Removal of Brilliant Red 3BN anionic dye from textile effluent by chemically modified Sugarcane Bagasse and Bamboo in ‘5th Green & Sustainable Chemistry Conference 2020’ organized by Elsevier Foundation-ISC3 Green & Sustainable Challenge from 10th -11th November, 2020.
19. Attended and presented paper on “Economic Impact of Indian Handloom Industry” in 1st National Conference (virtual) on Indian Traditional Textiles and Handloom: Past and Future held in School of Design, Mody University of Science and Technology, Rajasthan from 5th-7th August, 2023.
20. Attended and presented paper on “Natural dyes as Antimicrobial Agents for Textiles: A Review” in 3rd International Conference on Materials Science and Engineering held in Department of Mechanical Engineering, Dr BR Ambedkar National Institute of Technology, Jalandhar from 23rd -25th November, 2023.
21. Attended and presented paper on “Preparation and Characterization of Cellulose-Based Aerogels Using Cross-Link Technique for Spillage Clean-Up” in 3rd International Conference on Materials Science and Engineering held in Department of Mechanical Engineering, Dr BR Ambedkar National Institute of Technology, Jalandhar from 23rd -25th November, 2023
22. Attended and presented paper on “Internet of Things (IOT)” in 2nd National Conference on Emerging Trends in Law and Technology (ETLT-2023) held in Guru Nanak Dev University, Regional Campus Jalandhar on 13 October, 2024.
23. Attended and presented paper on “Artificial Intelligence” in 2nd National Conference on Emerging Trends in Law and Technology (ETLT-2023) held in Guru Nanak Dev University, Regional Campus Jalandhar on 13 October, 2024.

24. Oral Presentation in the International Conference on Integrative Chemical Science for Health & Environment, ICHE-2023, held from 6th – 8th October 2023, New Delhi.
25. Oral Presentation in the International Conference on Recent Advances in Waste Minimization and Utilization (RAWMU-2024) held from 23rd April 2024 to 24th April 2024, organized by Research and Development Cell, Lovely Professional University, Punjab.
26. Poster presentation in 2nd international conference on Emerging Trends in Traditional and Technical Textiles held on 1-3 November 2019, organized by Department of Textile Technology, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India.
27. Poster presentation in National Seminar on Recent Advances in Chemical Sciences (RACS-X) held on 04 April, 2024, organized by Post Graduate Department of Chemistry, Khalsa College, Amritsar.
28. Poster presentation during open day 2023 organized by Chemical Society-ACS International Student Chapter, Department of Chemistry, Guru Nanak Dev University, Amritsar.
29. Oral presentation on ‘Antimicrobial and Composition Analysis of Aqueous and Methanolic extract of *Dacryodes Macrophylla* Fruit’ at **ICETESM-2024** organized by global group of institutes Amritsar.

Invited lectures delivered

1. Delivered Lecture on ‘Blend Dyeing’ in Department Bachelor of Fashion & Textile Designing, BBK DAV College, Amritsar on 20th August, 2010.
2. Delivered keynote address Lecture on ‘Extraction of Bamboo Fibres for Textile Applications’ in UGC sponsored National seminar on ‘Fashion Design and Textile Technology – A progressive route towards higher education’ organized by Department Bachelor of Fashion & Textile Designing and PG Department of Fashion Designing & Merchandising, BBK DAV College for women, Amritsar held on 8th November, 2014.
3. Delivered Guest Lectures on ‘Bamboo Fibre in Textile Industry’; ‘Medical Textiles’; ‘Dyeing and Printing Technology’ & ‘Developments in Textile Finishing’., Special Sessions on four subjects for Bachelor of Textile Design & Bachelor of Fashion Technology in National Institute of Fashion Technology, Kangra on 14th October, 2016.

4. Delivered lecture on ‘Application of Natural Dyes on Natural Fibers’ in Baring Union Christian College, Batala on 28th February, 2018 (Science Day: Session 2017-2018).
5. Delivered Invited talk on ‘Natural Dyes and their Applications on Natural Fibres’ as Resource person in One week Faculty Development Programme on Visual and Performing Arts’ organized by Hans Raj Mahila Maha Vidyalaya, Jalandhar from 1st- 7th May, 2019.

Resource person/External Examiner/Chairmanships at national or international conference/ seminar

1. Acted as **Resource** person and participated in UGC sponsored National seminar on ‘Fashion Design and Textile Technology – A progressive route towards higher education’ organized by Department Bachelor of Fashion & Textile Designing and PG Department of Fashion Designing & Merchandising, BBK DAV College for women, Amritsar held on 8th November, 2014.
2. **External examiner**, Appointed as one of the external examiners for evaluating the Ph.D. synopsis titled Study of Green and Efficient Solvent Extraction of Dyes from Textile Effluent using Nanoemulsions (submitted by Narinderjit Kaur, Regd. No. 1412006) in Department of Research Innovation & Consultancy, I K Gujral Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala. held on 25th October, 2016.
3. **Chairperson**, Chairing a technical session during 7th National Symposium on Advances in Chemical Sciences organized by Department of Chemistry, Guru Nanak Dev University, Amritsar. 26th -27th March, 2018.
4. **Resource person** in One week Faculty Development Programme on Visual and Performing Arts’ organized by Hans Raj Mahila Maha Vidyalaya, Jalandhar from 1st- 7th May, 2019.
5. **Resource person** in four two weeks Refresher Course in Information Technology, Awareness & Applications (Interdisciplinary) from October 21 to November 3, 2020, conducted by ‘The UGC Human Resource Development Centre of Guru Nanak Dev University, Amritsar.’ (Advances in Technology: Smart & Modern Textiles)
6. **Chairperson of the Team** for Technical & Environmental Audit of M/s Amar Colour Chem India, 26, Focal Point, Amritsar (Committee constituted by Chairman of the Punjab Pollution Control Board). Detailed report was submitted on 25th November 2021.

7. **Resource person** in Two-Week Winter School [Agriculture Engineering, Mathematics, Computer Technology, Data Analysis, Engineering Sciences, Chemical, Civil, Electronics, Mechanical, Architecture and Planning, Textile Technology] from 22.2.2023 to 07.3.2023 conducted by ‘The UGC Human Resource Development Centre of Guru Nanak Dev University, Amritsar.’ (Innovations in Textile Technology: Smart and Technical Textiles)
8. **Coordinator for Campaign:** ‘Single Use Plastic, Resource Conservation, Pollution Management, Health and Hygiene’ in Mission LiFE- Lifestyle for Environment (Environment Education Programme) held on 29th - 30th May 2023, sponsored by Punjab State Council for Science & Technology, Chandigarh, organised by Guru Nanak Dev University, Amritsar.

Observer Duty for SSSB Examination

- Appointed as observer for Subordinate Services Selection Board Punjab (SSSB Punjab-Preliminary Examination) 2021 held on 8th August 2021 in Government Senior Secondary School, Nawankot (G) Amritsar (AM-6) [Ms Sharanjit Kaur & Ms Laxhmi Devi].

Organising Secretary Duty for National Webinar

- Organize an online one-day National Webinar on 9th April 2022 entitled ‘ Recent Developments in Apparel and Textile Industry’ in the Department of Apparel and Textile Technology, Guru Nanak Dev University, Amritsar.

Election Duties

1. Appointed as polling officer for Punjab Vidhan Sabha Elections 2017 at Mahwah, Atari (Amritsar.) (4th February, 2017).
2. Appointed as polling officer for Punjab Lok Sabha Elections 2019 at Baba Bakala (Amritsar.) (April, 2019).

Contributed as Reviewer

1. Contributed as reviewer to review the manuscripts of research papers submitted to the **Textile Research Journal (SAGE publications): 40**
2. Contributed as reviewer to review the manuscripts of research papers submitted to the **Fibers and Polymers (Springer): 05**
3. Contributed as reviewer to review the manuscripts of research papers submitted to the **RSC Advances (Royal Society of Chemistry): 01**

Participated in Panel Discussion

- Mastering color and color Technology,, Panel Discussion, 15th March 2012, International Color Seminar, Datacolor Solutions Private Limited., 403, Jay Antariksha, Makwana Road, Marol, Andheri East, Mumbai.

Member of Research Degree Committee

➤ In Chemistry

- Appointed as member of *Research Degree Committee in Chemistry* from 1st July, 2018 to 30th June, 2020.

➤ In Apparel and Textile Technology

- Appointed as member of *Research Degree Committee in Apparel and Textile Technology* from 1st July, 2023 to 30th June, 2024.
- Appointed as member of *Research Degree Committee in Apparel and Textile Technology* from 1st July, 2024 to 30th June, 2025.

Member of Medical/Health Committee

- Appointed as member of *Medical/Health Committee for Guru Nanak Dev University Amritsar* from 1st April, 2021 to 31st March, 2022.

Member of the Academic Council

- Appointed as member of the *Academic Council* from 1st July, 2024 to 30th June, 2026.

Member of Selection Committee for the selection of Assistant Professor

1. Appointed as member of *Selection Committee*, for the selection of Assistant Professor for session 2023- 2024 in the subject/department in Department of Apparel and Textile Technology, Guru Nanak Dev University Amritsar, on 26th May, 2023.
2. Appointed as member of *Selection Committee*, for the selection of Assistant Professor for session 2024- 2025 in the subject/department in Department of Apparel and Textile Technology, Guru Nanak Dev University Amritsar, on 1st July, 2024.

Member of Faculty of Sciences

- Member of Faculty of Sciences for the term/period 01-07-2024 to 30-06-2026.

Examination and evaluation duties assigned by the College/ University or attending the examination paper evaluation

➤ **Member of Panel Experts**

- Member of Panel Experts to conduct the Practical examination of Junior Technician, Department of Apparel and Textile Technology conducted on 12-09-2023.

➤ **MCQ Examiner**

- MCQ Examiner in Two-Week Winter School [Agriculture Engineering, Mathematics, Computer Technology, Data Analysis, Engineering Sciences, Chemical, Civil, Electronics, Mechanical, Architecture and Planning, Textile Technology] from 22.2.2023 to 07.3.2023 conducted by 'The UGC Human Resource Development Centre of Guru Nanak Dev University, Amritsar.'

➤ **Technical Member for Paper Testing (Gram per Square Meter & Whiteness Index Testing)**

- Technical advisor/evaluator for paper testing for Guru Nanak Dev University Amritsar (2018-2024).

Chairperson/ Member of Departmental Board of Control

- Chairperson Homescience (for Colleges), Guru Nanak Dev University Amritsar (2022-Till date)

Chairperson/ Member of Departmental Board of Control

- BOC member, Department of Applied Chemical Sciences and Technology (2001-2013)
- BOC member, Department of Chemistry (2013-2014; 2016-2017; 2018- 2019)
- Chairperson BOC, Department of Apparel and Science Technology (2022-Till date)

Chairperson/ Member of Board of Studies

- Member of Board of Studies in the Subject of Chemistry (PG) for the term/ period 01-07-2014 to 30-06-2016.

Member of Selection Board as Subject Expert

1. Lyallpur Khalsa College for Women, Jalandhar City for the selection of Assistant Professor in Chemistry on 18th July, 2015.
2. Participated as Subject expert (in the subject of Fashion Designing) of the selection committee for the selection of Assistant Professor in Fashion Designing for Khalsa College for Women, Amritsar on 9th July 2016.
3. Hindu Kanya Mahavidyalaya, Dhariwal for the selection of Assistant Professor in Fashion Designing on 29th April, 2017.

4. Guru Nanak National College for Women, Nakodar for the selection of Assistant Professor in Post Graduate Diploma in Garments Construction and Designings, 7th October, 2017.
5. Swami Swatantranand Memorial College, Dinanagar for the selection of Assistant Professor in Fashion Designing on 25th February, 2018.
6. R.R.M.K. Arya Mahila Mahavidalaya, Pathankot for the selection of Assistant Professor in Chemistry on 3rd March, 2018.

Convener/ member of inspection Committees for approval of new courses/ diplomas in GNDU affiliated colleges

1. Inspection at Trai Shatabadi GGS Khalsa College for Diploma in Stitching and Tailoring, Session 2018-2019. (Dr. Shariana Mahajan, Khalsa College for Women, Amritsar)
2. Inspection at Pandit Mohanlal S.D. College for Women, Gurdaspur for B.Voc. (Fashion Styling and Grooming), Session 2018-2019. (Dr. Mandeep Sokhi, B.B.K.D.A.V. College, Amritsar)
3. Inspection at A.P.J. College of Fine Arts, Jalandhar, for B.Voc. (Product Design Management and Entrepreneurship), Session 2018-2019. (Dr. B.S.Maan, University Business School, Guru Nanak Dev University, Amritsar)
4. Inspection at Shanti Devi Arya Mahila College, Dinanagar (Gurdaspur) for B.Voc. (Fashion Technology and Apparel designing) Session 2019-2020. (Dr. Mandeep Sokhi, B.B.K.D.A.V. College, Amritsar)
5. Inspection at Bhai Sangat Singh Khalsa College, Banga for Diploma in Stitching & Tailoring Session 2019-2020. (Mrs. Cheena Gupta, B.B.K.D.A.V. College, for women, Amritsar)
6. Inspection at Swami Swatantranand Memorial College, Dinanagar (Gurdaspur) for B.Voc. (Fashion Technology and Apparel designing) Session 2020-2021. (Dr. Saroj Arora, Professor, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar)
7. Inspection at Khalsa College for Women, Amritsar for the affiliation of Fashion Designing & Garments Construction (Vocational) Course from session 2022-23. [Inspection Committee: Dr. Prof. Saroj Arora (Convener of the Committee) & Dr. Varinder Kaur (Department Of Apparel and Textile Technology)]

8. Inspection at B.B.K. D.A.V. College for Women, Amritsar for the affiliation of M.Voc (Fashion Technology) Course from session 2022-23. Inspection Committee: Dr. Prof. Dr. Saroj Arora (Convener of the Committee), Dr. Varinder Kaur (Department Of Apparel and Textile Technology) & Dr. Sachin Kumar (Department Of Apparel and Textile Technology).
9. Inspection at St. Soldier College (Co- Education), behind REC (N.I.T.), Jalandhar for the affiliation of Diploma Course in Cutting and Tailoring Course from session 2022-23. [Inspection Committee: Dr. Varinder Kaur (Convener of the Committee) & Dr. Ms.China Gupta (HMTV, Jalandhar)]
10. Inspection of R.R. Bawa D.A.V. College for Girls, Batala for the affiliation of Fashion Designing & Garments Construction (Vocational) subject from session 2022-23. [Inspection Committee: Dr. Varinder Kaur (Convener of the Committee) & Vasudha Sambyal (Department of Mass Communication) Guru Nanak Dev University, Amritsar)]
11. Inspection at Baba Kundan College, Chogawan, Killiawal, Jamalpur, Ludhiana for PGDCA, BA Sem I- VI, Diploma in Computer Applications, Diploma in Stitching and Tailoring, B.Com Semester & BCA for Session 2023- 2024. (Dr. Harsandaldeep Kaur, University School of Financial Studies and Dr. Amit Chhabra, Department of Computer Engg. & Tech. Guru Nanak Dev University, Amritsar)
12. Inspection at Guru Nanak College of Arts and Science, Chogawan, Distt. Amritsar for PGDCA, Diploma in Stitching and Tailoring & BA Sem I- VI for Session 2024- 2025. (Dr. Munish Saini, Department of Computer Engg. & Tech. and Dr. Malkiat Singh, Department of Political Sciences, Guru Nanak Dev University, Amritsar)
13. Inspection at Saroop Rani Government College for Women, Amritsar for BA (Hons.) Aesthetic and Beauty Therapy for Session 2024- 2025. (Dr. Shweta Shenoy, MYAS-GNDU Department of Sports Sciences and Medicine, Guru Nanak Dev University, Amritsar)
14. Inspection at DAV College Amritsar for PGDCA, Diploma in Fashion Technology for Session 2024- 2025. [(Inspection Committee; Dr. Varinder Kaur (Convener of the Committee) & Dr. Shariana Mahajan, Khalsa College for Women, Amritsar)]
15. Inspection at Mata Gujri Memorial College, vill Balwanda, The. Kahnuwan, Gurdaspur for Diploma in Sticking and Tailoring for Session 2024- 2025. (Dr.

Anupum Kaur, Director, Department of Lifelong Learning, Guru Nanak Dev University, Amritsar)

16. Inspection at Government College, Gurdaspur, for BA (Hons.) Aesthetic and Beauty Therapy for Session 2024- 2025. [(Inspection Committee; Dr. Varinder Kaur (Convener of the Committee) & Dr. Simran Kaur (RR Bawa DAV College for Girls, Batala)]
17. Inspection at Govt. College Ladhupur, Gurdaspur, for the affiliation of B.A.(Hons) Aesthetics and Beauty Therapy(CBGS) Course from session 2024-25. (Inspection Committee; Dr. Varinder Kaur (Convener of the Committee) & Dr. Anupam Kaur (Human Genetics Department, Guru Nanak Dev University, Amritsar)
18. Inspection of Government College, Sidhpur, Dina Nagar, Gurdaspur for the affiliation of B.A.(Hons) Aesthetics and Beauty Therapy(CBGS) Course from session 2024-25. [Inspection Committee: Dr. Varinder Kaur (Convener of the Committee) & Dr. Anupam Kaur (Human Genetics Department, Guru Nanak Dev University, Amritsar)]

Abstracts contributed for National/International conference

1. Kaur, J. **Kaur, V.** And Katnoria, J. K. (2017). Adsorption of heavy metals from natural aquatic bodies using low grade textile rugs: an Overview. National Seminar on “**Recent Trends in Plant and Environmental Sciences**” organized by Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, February 9-10, 2017. P. 31.
2. Kaur, J., **Kaur, V.** And Katnoria, J.K. (2017). Effects of industrialization on different ecosystems in Ludhiana region of Punjab (India). VIth National Symposium on “**Advances in chemical Sciences**” organized by Department of Chemistry, Guru Nanak Dev University, Amritsar, March 6-7, 2017.
3. Singh, N., Soodan, R.K., Chahal, **V., Kaur, M.**, Kaur. S., Kaur, R., Saraswati, Kaur, J., Ranjan, H. and Kaur, J. and Katnoria, J. K. (2017). Environmental Contaminants: Consequences and Remediation. VIth National Symposium on “**Advances in chemical Sciences**” organized by Department of Chemistry, Guru Nanak Dev University, Amritsar, March 6-7, 2017.
4. Kaur, J., **Kaur, V.** and Katnoria, J.K. (2017). Evaluation of DNA damaging effects of synthetic food dyes using different bioassays. 7th International Conference on “Global Scenario of Life Science, Agriculture, Nursing and

- Medical Research for the Welfare of Rural and Urban Folk” organized by International Consortium of Contemporary Biologists and METAS Adventist College and 7th Day Mission Hospital, Ranchi, Jharkhand. December 3-5, 2017.
5. Kaur, J., **Kaur, V.** and Katnoria, J.K. (2018). Evaluation of genotoxic effects of different water samples collected from Buddha Nullah. 21st Punjab Science Congress organized by Punjab Agricultural University, Ludhiana.
 6. Kaur, J., **Kaur, V.** and Katnoria, J.K. (2018). Genotoxicity assessment of Buddha Nullah water using *Allium cepa* root chromosomal aberration assay. CHESCON-2018 organized by Department of Botany, Punjab University, Chandigarh.
 7. Ndinchout, A.S., Chattopadhyay, D.P., Kaur, S., Kaur, S.P. and **Kaur, V.** and (30th -31st October 2018). Illuminating natural wool with anti-microbial dye obtained from *Dacryodes macrophylla*. National Conference on Plant Sciences: Network in Health and Environment (PSNHE-2018) Organized and hosted by the Post Graduate Department of Botany, Khalsa College, Amritsar.
 8. Singh, A., Kaler, RSS and **Kaur, V.** (7th-8th December, 2018). Physico-Chemical, Functional, Morphological and Antioxidant Properties of Roasted Wheat Bran. International Conference on Food Security-Challenges & Opportunities. Organized and hosted by the Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala.
 9. Ndinchout, A.S., Chattopadhyay, D.P., Moundipa Fewou, P., Nyegue, M.A., **Kaur, V.** and Kaur, S. (8th -11th September 2019). Conventional and ultrasonic dyeing on woolen fabric and bacterial resistance of *Dacryodes macrophylla* extract. International Symposium on Dyes and Pigments, Melia Sevilla, Spain.
 10. Kaur, J., **Kaur, V.** and Katnoria, J.K. (25th-26th April, 2019). Physico-chemical Characteristics and Genotoxicity Assessment of water samples of Buddha Nullah, Ludhiana. International Conference on ‘Environmental Analysis India’ held in Radison Blu Hotel Paschim Vihar, New Delhi, India.
 11. Choudhery, A., Choudhery, **K., Kaur, V.**, Malhi, P. and Godara, S. (1st -3rd November, 2019). ‘Impact of Demonetization on Textile and Apparel Industry’. International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT-2019) organized by Dr B R Ambedkar NIT Jalandhar.
 12. Sharma, S., Bhawna, Mansi, Bhartam, P.V., Hundal, G. and **Kaur, V.** (18th -21st December, 2019). ‘Microwave-Induced Synthesis of Nano-sized pyridine based Schiff Bases and Their Application as efficient textile dyeing agents:

Experimental and Theoretical Approach'. 6th International Conference on Advanced Nanomaterials and Nanotechnology ICANN2019. Organized by: Centre for Nanotechnology Indian Institute Of Technology Guwahati, Assam, INDIA.

Memberships of Professional Societies

- ✓ Life Member, Punjab Academy of Sciences
- ✓ Life Member, The technological Institute of Textile & Sciences, Bhiwani
- ✓ Member, The Textile Association (India)

GOC/Refresher Courses

Name of the course/summer school	Place	Duration	Sponsoring Agency
G.O.C.	Academic Staff College, Guru Nanak Dev University, Amritsar.	26-4-05 to 23-5-05	U.G.C.
Refresher Course (Environment)	Academic Staff College, Guru Nanak Dev University, Amritsar.	10-2-03 to 1-3-03	U.G.C.
Special Winter School 2008-2009	Academic Staff College, Guru Nanak Dev University, Amritsar.	23-12-08 to 12-01-09	U.G.C.

Workshops attended

S. No.	Name of the course/summer school	Place	Duration	Sponsoring Agency
1	Two day workshop on 'Process and Quality Control in Textile Industries'	I.I.T., Delhi	22 nd - 23 rd April, 2010	I.I.T., Delhi
2	One day Brain-storming workshop for Promoting Extramural Research in Punjab State	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar	12 th February, 2012	Society of Botanical and Environmental Sciences
3	Short Term Course on	Academic Staff	2 nd - 8 th July,	University Grants

	‘Workshop for PhD/ Post Doctoral Scholars/ Research Scholars/ Teaching Faculty on Basic Statistics’	College, Guru Nanak Dev University, Amritsar.	2014 (1 week)	Commission (UGC)
4	One week Workshop on NMR/MRI: From Molecules to Human Behavior	Department of Chemistry, Guru Nanak Dev University, Amritsar.	6 th -11 th October, 2014 (1 week)	Department of Science and Technology, New Delhi (DST)
5	One week Workshop on ‘Teacher Empowerment Program’	Academic Staff College, Guru Nanak Dev University, Amritsar	15 th December to 20 th December, 2014 (1 week)	University Grants Commission (UGC)
6	Participated in Microsoft Sponsored Short Term Course in named ‘SAKSHAM-IT Champion Training Program’	Academic Staff College, Guru Nanak Dev University, Amritsar	24 th -30 th December, 2014. (1 week)	SAKSHAM (Microsoft IT Company)
7	Short Term Course in ‘Workshop on the use of Software Technology’ held during 16 th -22 nd January, 2015 at Academic Staff College, Guru Nanak Dev University, Amritsar.	Academic Staff College, Guru Nanak Dev University, Amritsar	16 th -22 nd January, 2015 (1 week)	University Grants Commission (UGC)
8	‘Workshop in Research Methodology’	Human Resource Development Centre, Guru Nanak Dev University, Amritsar.	6 th -12 th January, 2016	University Grants Commission (UGC)
9	Chemical Catalysis in Biology	Guru Nanak Dev University, Amritsar.	18 th – 31 st May, 2016	Global Initiative For Academic Networks
10	Carbon Capture and Sequestration.	Guru Nanak Dev University, Amritsar.	12 th – 16 th December, 2016	Global Initiative For Academic Networks
11	Concept of NMR for Analysis of Chemical and Material Properties	Guru Nanak Dev University, Amritsar	12 th – 21 st December, 2016	Global Initiative For Academic Networks
12	Single molecule Magnetism	Guru Nanak Dev University,	6 th -10 th August, 2017	Global Initiative For Academic

		Amritsar		Networks
13	Principles, Chemicals and Biological Applications of NMR	Guru Nanak Dev University, Amritsar.	13 th – 17 th March, 2018	Faculty Development Centre (UGC-Human Resource Development Centre)
14	One-week National Workshop on Herbal Drugs Issues and Challenges	Guru Nanak Dev University, Amritsar.	16 th - 22 nd September, 2019	Faculty Development Centre (UGC-Human Resource Development Centre)
15	MHRD Sponsored One week Workshop on Develop, Design & Deliver MOOC Course as a Tool for Blending Learning	Guru Nanak Dev University, Amritsar	9 th -15 th January, 2020	School of Education (Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching-PMMNMTT, MHRD)
16	Two days Workshop for Teaching Faculty on Higher Education and Academic Administration	Guru Nanak Dev University, Amritsar.	28 th - 29 th February, 2020	Faculty Development Centre (UGC-Human Resource Development Centre),
17	Participated in Professional Advancement Program for Indian Women Researchers in STEM	Doon University Dehradun (Uttarakhand)	2 nd -3 rd June 2022	Dr. Nityanand Himalayan Research and Study Centre
18	Participated in One Day Webinar on Ethics	Guru Nanak Dev University, Amritsar.	18 th February, 2022	Faculty Development Centre (UGC-Human Resource Development Centre)
19	Attended program on 'Fundamental and Advances in Technical Textiles'	Indian Institute of Technology, Delhi	8 th – 12 th July 2024	SIDBI Cluster Intervention Programme, Technical Textile Cluster Amritsar

Additional Charge

- Appointed as Hostel Warden from 17th April, 2017 to 31st March, 2018 and 1st November, 2018 to 17th November, 2020.

Extracurricular activities

- ✓ Member of counseling committee for virtual admission for Diploma in Fashion & Textile Design and Diploma in Fashion Designing in Department of Lifelong learning , Guru Nanak Dev University, Amritsar. (5th August, 2020; Session 2020-2021).
- ✓ Escorted Educational/Field Tours/Industrial Visits for B.Tech. (Textile Processing Technology) students (2003-2016; 2019-2021).
- ✓ Member of Equipment Purchase Committee (Contact Angle Measurement Committee), Department of Chemistry, Guru Nanak Dev University, Amritsar, (2020-2021).
- ✓ Member of Committee constituted to maintain discipline in University Campus and Hostels for session 2019-2020 (From 01-07-2019 to 30-06-2020).
- ✓ Member of Accommodation Committee and Venue specific Committee (To set up the help desks at each venue to assist organizers and participants and coordinate between them) North Zone Intervarsity Youth Festival YUVFORIA-2019 in GNDU Campus (25th -29th December, 2019).
- ✓ Member of Supervisory Committee for Akhand Path, Ragi Jatha and Guru ka Langar for Golden Jubilee for Foundation Day of Guru Nanak Dev University, Amritsar (24th November, 2018-2019).
- ✓ Member of Accommodation Committee and for Supervisory committee for Guru Nanak Bhawan auditorium for Jashan 2019 (14th -17th March, 2019).
- ✓ Member of Addiction Awareness Committee for overall functioning of the department, 2018-2019.
- ✓ Member of Souvenir/Abstract Committee and for 5th National Symposium on Advances in Chemical Sciences, Department of Chemistry, Guru Nanak Dev University, Amritsar, (2nd -3rd February, 2016).
- ✓ Participated as member of Accommodation and Hospitality Committee in the organization for International Conference on “Environmental Mutagenesis, Carcinogenesis and Health” organized by Department of Botanical and

Environmental Sciences, Guru Nanak Dev University, Amritsar, 17th -19th February, 2016.

- ✓ Member of Training and Placement Committee, Department of Applied Chemical Sciences and Technology, Guru Nanak Dev University, Amritsar, (2002-2013); Department of Chemistry, Guru Nanak Dev University, Amritsar, (2013-2022) & Department of Apparel and Science Technology, Guru Nanak Dev University, Amritsar, (2022-Till now).

(Dr. Varinder Kaur)
Associate Professor

Station: Amritsar
Date: 05.04.2025