

Prof. Rekha Mehrotra

D-1/30, Janakpuri, New Delhi-110058

9811243283

mehrotrarekha06@gmail.com



Designation: Professor, Teacher in Charge Department of Microbiology
Coordinator, Department of Environmental Sciences

Department: Microbiology

Office Address: Shaheed Rajguru College of Applied Sciences for Women,
(University of Delhi)
Vasundhara Enclave, Near Chilla Sports Complex, Delhi-96
Tel: 011-22623505

Career Objective:

To contribute to higher education through innovative teaching, research, and mentorship while fostering skill development, entrepreneurship, and sustainable academia–industry collaborations that translate knowledge into societal and economic impact.

Educational Qualifications:

Examination	Subject(s)	Percentage Marks	Name of the Board/ University	Year of Passing	Remarks
Ph.D	Human Genetics	Qualified	University Of Delhi	Jan'95	Title of Ph.D. Thesis: "Hemoglobinopathies and Thalassemias: A study of the β -globin gene in the anemic children of Delhi (North India)
M.Phil	Botany (Tissue Culture)	80.8% II position in University	University Of Delhi	1987	Title of M.Phil thesis "In Vitro Propagation of Bamboos"

M.Sc	Botany	69.3%	University of Delhi	1985	Along with other courses papers two special papers were taken viz. (i) Tissue culture (ii) Microbiology
B.Sc(H) Botany	Botany, Zoology, Chemistry, English, History of Science	62.4%	University Of Delhi	1983	

Other Qualifications:

- Appointed as Junior Research Fellow in the Department of Science and Technology – National Biotechnology Board scheme, entitled: ‘Studies on Bamboos: Propagation by Tissue Culture and Physiology of Flowering’ sanctioned to Prof. H.Y. Mohan Ram and Dr. I. UshaRao w.e.f 14th Aug.1985 in the Department of Botany, University of Delhi.
- Qualified University Grant Commission-National Education Test (UGC-NET) held in September, 1985 in the subject Life Sciences and was appointed as Junior Research Fellow in the Department of Genetics, University of Delhi. Passing the UGC-NET qualifies for taking up Lectureship also.

Personal Profile:

Date Of Birth: 16th May ,1963

Sex: Female

Nationality: Indian

Teaching appointments and Assignments:

- Selected as Lecturer in the Department of Botany in Daulat Ram College (University of Delhi) in Oct’86.
- Appointed as Lecturer in Biology in the College of Applied Science for Women (University of Delhi) from Dec’89 to Apr’99.
- Associate Professor from Apr’1999 to Apr’ 2023.
- Presently designated as Professor since 27th April 2023.

Courses and papers taught at various levels:

a) Undergraduate courses taught:

- B.Sc. (H) Instrumentation
- B.Sc. (H) Microbiology
- B.Sc. (H) Biomedical science
- B.Sc. (H) Food Technology
- B.Sc. (H) Electronics

Papers taught

- General Biology
- Microbiology
- Genetics
- Laboratory technology and Maintenance
- Cell Biology
- Advanced cell biology and cell signaling
- Biomolecules
- Human Physiology
- Nuclear and Biomedical Instrumentation
- Analytical instrumentation
- Environmental Studies
- Integrating Mind Body and Heart

b) Postgraduate course taught:

- M. Pharma

Papers taught:

- Pharmaceutical Microbiology
- Biological evaluation in Quality Control

Field of Specialization under the Subject:

- a) General Biology
- b) Plant Tissue Culture
- c) Human genetics
- d) Microbiology
- e) Environmental studies

Awards and Honors:

- Received **Certificate of Appreciation** for notable contribution as speaker in virtual Round Table Discussion on “Mushroom Value Additions and Innovations” held on 25th November 2025 by Microbiologist’s Society, India.
- Received “**MBSI SENIOR TEACHER AWARD – 2025**” by Microbiologist’s Society, India for the academic year 2024-25.
- Received “**Best Educationist Award**” by KTK Outstanding Achievers and Education Foundation for outstanding achievements and remarkable contributions in the field of Microbiology on 29th September 2024
- Received **Certificate of Appreciation** for active participation and contribution during “India Mushroom Days” from 4-6th October at New Delhi, India organized by Milkway Technologies Limited.
- Received “**Green Educator Award**” for outstanding contributions to environmental conservation and sustainability over the past many years. Recognition of efforts for fostering environmental awareness and sustainable practices, creating a greener future, inspiring students and the community alike on the occasion of Teacher’s Day 5th Sep 2024.
- Received “**Green Guide Certificate**” in recognition of exemplary guidance and unwavering support during the 30-Day Environment Challenge to the college. The college successfully completed the challenge setting a standard for environmental stewardship and commitment in the year 2024.
- Received “**Bharat Gaurav Puraskar**” by KTK Outstanding Achievers and Education Foundation for outstanding achievements and remarkable contributions in the field of Microbiology in the year 2024.
- Received “**Award of Honor for Best Teacher**” by National EduTrust of India (Registered under Ministry of Micro, Small and Medium Enterprises) for exemplary dedication and leadership in incorporating environmental education and motivating students to embrace environmental consciousness in the year 2024.
- Received “**Eminent Teacher award**” by International multidisciplinary research foundation, Institute of higher education and research for consistent superior performance in field of Microbiology in the year 2021.
- Received “**Meritorious Teacher State award**” by Directorate of Higher Education, Government of National Capital for the year 2015-16.

Appointed as State President, Delhi Unit, Microbiologists Society India for the session 2023-24 and carried various initiative in the field of Microbiology.

Entrepreneurial Skill Development Initiative: Mushroom Cultivation Program:

- Actively involved as Convenor in organizing and delivering hands-on training in various edible and medicinal mushrooms cultivation.
- Successfully conducted **Five** 6-month certificate program in mushroom cultivation and Faculty Development Program, promoting skill development and sustainability, benefiting students, faculty, and the community since 2020.
- Established IoT enabled Mushroom Cultivation Facility in the college which allows real-time monitoring of critical parameters regulated by automated systems. This facility offers a smart, tech-driven approach to commercial scale mushroom production while reducing waste and enhancing quality. Herein we cultivate diverse varieties of edible as well as medicinal mushrooms like Oysters (white, pink and grey), King oysters, Portobello, Button, Cremini and Cordyceps.
- The Skill development centre at our college provided hands-on training on cultivating different varieties of mushrooms to students from Manipur state under **JAIHIND Scheme (Janajati Immersive Holistic Intervention for Novel Development)**, organized by University of Delhi.
- The Mushroom Cultivation skill development facility and program of college got “**Best Skill Centre Award**” during “**Skills, Start-ups and Entrepreneurship Expo-2024**” organized by School of Open Learning, Shaheed Rajguru College of Applied Sciences for Women and Udhamodya Foundation on 4-6th October 2024.

Industrial Partnership for Training and Skill Advancement

- Member of Apex Advisory Committee and Convenor for Skills, Start-Ups and Entrepreneurship Expo and India Mushroom Days organized by School of Open Learning, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Udhamodya Foundation and Milky way technologies from 4-6th October, 2024.
- Member of Apex Advisory Committee for India Mushroom Summit 2023- An initiative for Aatma-Nirbhar Bharat, jointly organized by Milky way mushroom in association with Campus of Open Learning, University of Delhi and Shaheed Rajguru College of Applied Sciences for Women, University of Delhi from 20-22nd November, 2023.
- Regularly organized expert talks and interactive sessions with entrepreneurs in mushroom cultivation to inspire and provide students industry insights, entrepreneurial motivation, and exposure to real-world business models.

Co-authored and co-edited Book titled “Mushtales” 2024. The book showcases innovative and nutritious mushroom-based recipes using sustainably cultivated mushrooms in our skill development centre. It promotes urban health through eco-conscious eating and highlights the culinary versatility and nutritional value of different mushroom species.

Research Publications:

- Bhadoriya P, Jatley A, Singh A, **Mehrotra R**, Jain M, Mohammed A, Hamzah Z, Bukke SP. Exploring gut microbiota's influence on cognitive health and neurodegenerative disorders: mechanistic insights and therapeutic approaches. (2025) Discover Immunity, 2(1):1-27.
- Solanki, P., S. Jain, **R. Mehrotra**, P. Mago, and S. Dagar. "Microplastics in Agricultural Soil and Their Impact: A Review." Nature Environment and Pollution Technology 23, no. 4 (2024): 2143-2155.
- Priya A., Dashti M., Thanaraj T.A., Irshad M., Singh V., Tandon R., **Mehrotra., R.**, Singh A.K., Mago P., Singh V., Malik M.Z. and Ray A.K. Identification of potential regulatory mechanisms and therapeutic targets for lung cancer. (2024) Journal of Biomolecular Structure and Dynamics, DOI: [10.1080/07391102.2024.2310208](https://doi.org/10.1080/07391102.2024.2310208).
- Mago, P.; Kaur, S.; Srivastava, I.; **Mehrotra, R.**; Kaur, K.; Sharma, R.; Yadav, A. A Review on Unravelling the Medicinal Properties of Magical Mushrooms: *Cordyceps Militaris*. *Biomedicine* **2023**, *43*, 1368-1375.
- Kaur, K., Sharma, S., Shree, N., and **Mehrotra, R.** (2023). A Comprehensive Review on the Diverse Arsenal of PET-Degrading Organisms. International Journal of Innovation and Multidisciplinary Research (IJIAMR). Volume 3 Issue 3 Pg 22-32. ISSN 2583-4452
- **Mehrotra., R**, Sharma., A., Chandiramani, K., and Kaur., K. Reshaping our psyche: Establishing closeness to nature ensures well-being. (2023) International Journal of Multidisciplinary Research. 5 (2) March-April 2023.
- **Mehrotra., R**, Sharma., S, Shree., N and Kaur., K. Bacterial cellulose: an ecological alternative to biotextile. (2023) Biosci Biotech Res Asia Vol. 20.
- **Mehrotra., R**, Singh Anantika., Indwar, Angel., Das Ritika., Roy, S., Kumari., S., Agrawal., Y., Verma., P., Yadav., A., Kumar Diwakar. (2023). Methanogens: Way ahead for sustainable Development. ACTA scientific Microbiology. Vol
- **Mehrotra., R**, Khera., K, Sharma., R (2023) Keratinase of Bacillus subtilis N-49: a novel strain of Indian origin possessing potential to enhance transungual drug delivery. International Journal of Biology, Pharmacy and Allied Sciences. 12 (11). ISSN: 2277-4998.
- Sharma, R., **Mehrotra., R.**, Mago, P. (2023). Microbial keratinase: Then and Now. International Journal of Innovative Science and Research Technology, Volume 8, Issue 4. ISSN – 2456-2165.

- Kaur, K., Sharma, S., Shree, N. and **Mehrotra, R.** Recent Advancements and Mechanism of Plastics Biodegradation Promoted by Bacteria: A Key for Sustainable Remediation for Plastic Wastes. (2023) Biosci Biotech Res Asia. 20 (1).
- **Rekha Mehrotra**, Shreya Deb, Sanya Chauhan, Aarti Yadav, Preeti Verma. (2023). Microbial Contamination of Ready-To-Eat Fresh Produce by Human Enteric Pathogens: The Global Burden of Foodborne Diseases. International Journal of Innovative Science and Research Technology Volume 8, Issue 5, May – 2023
- **Rekha Mehrotra**, Vijay Veer Saharan, Preeti Verma. Significance of Biofilm Formation by Enteric Escherichia Coli Obtained from Fresh Produce in Increased Antimicrobial Resistance and Persistence. International Journal of Innovative Science and Research Technology Volume 8, Issue 5, May – 2023.
- Bhadoriya, P., Sharma, R., **Mehrotra, R.**, Kaur, S., Srivastava, I. et al (2023). A review on re-emerging bacteriophage therapy in the era of XDR. Biocell, 47 (9), 1915-1930.
- Yadav, A., Khera, K., **Mehrotra, R.**, Kaur, K., Agrawal, Y., Srivastava., P and Thakur, S. Unnatural Nucleotides: Exploring the Information Storage System of DNA (2022). Archives of Clinical and Biomedical Research. 6 (6): 61
- **Mehrotra, R.**, Sharma, R. and Kaur, K. Microbial Dyes for Textiles: A Sustainable Alternative to Synthetic Dyes (2022). Journal of the Textile Association. 83/3 (157-161).
- Kaur, K., Sharma, R., Srivastava, I., Kaur, S. & Mehrotra, R. (2022). Edible Mushrooms: Nature's superfood for health and wellbeing. International Journal of Innovation and Multidisciplinary Research (IJAMR). Volume 1 Issue 1 Pg 40. ISSN 2583-4452
- Sundaram, S., Singh, S., Singh, A., Singh, H., Pal, P., Bharthey., P & **Mehrotra., R.** (2022). Harnessing sustainable biogas energy from organic waste. International Journal of Innovation and Multidisciplinary Research (IJAMR). Volume 2 Issue 1 Pg 26. ISSN 2583-4452
- Singh, P and **Mehrotra, R.** (2022) A survey and statistical analysis of the awareness, practice, attitude, and the satisfaction of the public towards household solid waste management across major cities in India. International Journal of Innovation and Multidisciplinary Research (IJAMR). Volume 2 Issue 1 Pg 7. ISSN 2583-4452
- Sharma, R., Gupta, D., **Mehrotra, R.** et al. Psychobiotics: The Next Generation Probiotics for the brain. Curr. Microbiol 78, 449-463 (2021)
- Garg D, Sarkar A, Chand P, Bansal P, Gola D, Sharma S, Khantwal S, Surabhi, **Mehrotra R**, Chauhan N, Bharti RK. Synthesis of silver nanoparticles utilizing various biological systems: mechanisms and applications-a review. Prog Biomater. 2020 Sep;9(3):81-95.

Book Chapters:

- Yadav, A., **Mehrotra, R.**, Verma, P. (2024). Microorganisms as Potential Source for Food Sustainability. In: Thakur, M. (eds) Sustainable Food Systems (Volume I). World Sustainability Series. Springer, Cham. ISBN: 9783031471216
- Yadav, A., Khera, K., **Mehrotra, R.**, Verma, P., Yadav, D., & Kudanga, T. (2024). Laccase engineering: Tailoring laccases for effective and efficient catalysis. In Bacterial Laccases (pp. 103-124). Academic Press. ISBN: 978-0-323-91889-3

- Yadav A., Sharma R. and **Mehrotra R.**, Algal bioactive components – Sources, Health benefits and Sustainability (2022); Bioactive components: A sustainable system for good health & well-being; Springer Singapore, ISBN: 9789811923654.
- Nitin Chauhan, Sunil Gola, Surabhi, Shivangi Sharma, Sukirti Khantwal, **Rekha Mehrotra**, Arvind Arya, Randhir Kumar Bharti, Priyadarshini Dey, Pankaj Kumar Tyagi and Deepak Gola; Detrimental Effects of Industrial wastewater on the Environmental and Health (Ch-3) In. Biological Treatment of Industrial Wastewater, Editor- Maulin P. Shah), Royal Society of Chemistry, London, 2022 (ISBN: 978-1-83916-279-4)
- Deepak Gola, Anirban Adhikary, Randhir Kumar Bharti, Priyadarshini Dey, Sunil Gola, Nitin Chauhan, Sunil Kumar Srivastava, **Rekha Mehrotra**; Advances in nanotechnologies for wastewater treatment: Strategies and emerging opportunities (Ch-6) In *DWTRP: Removal of Emerging Contaminants from Wastewater through Bio-nanotechnology*, (Editors-Maulin P. Shah, Susana Rodriguez-Couto, Jayanta Kumar Biswas), Elsevier, 2021 (ISBN: 9780323855839).
- Sharma R. and **Mehrotra R.**, Transformation (2019); Microbial Genetics; 9789353387969; Vikas Publishing House.
- Sharma R. and **Mehrotra R.**, Transduction (2019); Microbial Genetics; 9789353387969; Vikas Publishing House.

Magazines Articles Published/Edited:

- Mehrotra R., Mushroom Cultivation: An Indian Scenario; Mushroom Chronicles, Volume 7, November 2024; Pg. 49-53.
- Mehrotra R., Editor for Mushroom Chronicles; Volume 5, July 2024.
- Mehrotra R., Decoding Challenges, Mushroom Chronicles, Volume 4, May 2024, Pg. 26-27.
- Mehrotra R., Decoding Challenges in Mushroom Cultivation; Mushroom Chronicles; Volume 3, March 2024, Pg. 8-11.
- Mehrotra R., Mushrooms in the Modern World: A Showcase of Applications: Mushroom Chronicles; Volume 2, January 2024, Pg. 39-42.

Paper& Poster Presentations:

- Poster presentation titled ‘Naturify: Greenifying your psyche’ presented at National Conference 2023- Bioentrepreneurship- Academia to Industry organized by Department of Microbiology, SRCASW on February 23-24, 2023.
- Poster presentation titled ‘Plastic degrading bacteria to achieve global sustainable development goals’ presented at Vichaarkosh 3.0, poster presentation competition organized by Department of Biochemistry, SRCASW held on January 16, 2023

- Poster presentation titled 'Indian perspective of cervical cancer' presented at National Symposium on frontiers in biomedical research 2022 communicable and noncommunicable diseases: prevention, cure and future preparedness held on November 2-4, 2022
- Achievement award in the Oral presentation on paper titled 'A Survey and statistical analysis of the awareness, practice, attitude, and the satisfaction of the public towards household solid waste management across major cities in India', under the subtheme 'Sustainability' in the conference, Vishwa Guru Bharat on 23rd-24th March 2022 organized by Shaheed Rajguru College of Applied Sciences for Women.
- Poster presentation titled 'Mushroom in packaging industry: A step towards sustainability' under the subtheme 'Sustainability' in the conference, Vishwa Guru Bharat on 23rd-24th March 2022 organized by Shaheed Rajguru College of Applied Sciences for Women.
- Achievement award in Poster presentation on paper titled 'Keratinase of Bacillus subtilis N49: A novel strain of Indian origin possessing potential to enhance trans-ungual drug delivery' under the subtheme 'Sustainability' in the conference, Vishwa Guru Bharat on 23rd-24th March 2022 organized by Shaheed Rajguru College of Applied Sciences for Women.
- 'Morphological dependence of anti-bacterial properties of hydrothermally synthesized ZnO structures' in Recent advances in condensed matter physics at Kurukshetra University on 12-13th October, 2018.
- Rao, I. Usha; Rao, I.V. Ramanuja; Narang, Vibha; Jerath, Rekha and Pillai, K. Gangadharan. 1988. Mass propagation of Bamboos from Somatic Embryos and their successful transfer to the forest. Proc. International Bamboo Workshop. Cochin, India (Nov 14-18, 1988).

Invited Lectures:

- Delivered a lead lecture titled "**Mushrooms: Nature's Sustainable Solution for Diverse Applications**" at the National Conference on FUNGI for BHARAT - "Fungi for Better Health, Agriculture, Remediation And Technology" & 52nd Annual Meeting of Mycological Society of India organized by Delhi University Botanical Society, Department of Botany, University of Delhi, held **from 20-22nd November' 2025**.
- Invited Talk on "**Exploring the world of Mushrooms**" on the occasion of World Food Day organised by Department of Food Technology, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi on **16th October' 2024**.
- Invited Talk on "**Cultivating a Fungal Future: Mushroom based Entrepreneurship**" organised by Department of Botany, Kirori Mal College, University of Delhi on **11th October' 2024**.
- Invited Talk on "**Mushroom Cultivation: An Indian Scenario**" during Skills, Start-Ups and Entrepreneurship Expo and India Mushroom Days organised by School of Open

Learning, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Udhmodya Foundation and Milky way technologies on **6th October, 2024**.

- Invited Talk on “**Mushrooms: Fungi with Diverse Applications**” during India Mushroom Summit organised by School of Open Learning, Shaheed Rajguru College of Applied Sciences for Women University of Delhi, and Milky way technologies on **21st November, 2023**.
- Invited Talk on “**Mushrooms: Fungi with Diverse Applications**” organised by Department of Botany, Deen Dayal Upadhyaya College, University of Delhi on **13th October, 2023**.
- Invited Talk on “**Mushrooms: The ultimate superfood**” organized by Indraprastha Horticulture Society on **7th December, 2022**.

International Visits:

- Attended International Capacity building program organized by University of Delhi in collaboration with Durham University, UK, on “Global Trends in academic administration” for senior academic and administrative faculty, from 3rd April to 13th April 2025.
- Attended International conference on Women’s education worldwide held at Smith and Mount Holyoke college, Boston, USA from 31st May to 3rd June 2011.

Social Outreach Activities:

- Recognition for participating and completing the largest plantation drive at Shaheed Rajguru College of Applied Sciences for Women in higher educational institutions across East Delhi under the aegis of Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Govt of India.
- Recognition for developing Shaheed Rajguru College of Applied Sciences for Women as a sustainable campus in areas of sanitation, hygiene, waste management, water management, energy management and greenery management by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Govt. of India.
- Recognition for Shaheed Rajguru College of Applied Sciences for Women as a recognized Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES REC) Institution by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Govt of India.
- Recognition for making Shaheed Rajguru College of Applied Sciences for Women a District Green champion for East district, Delhi for the academic year 21-22 by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of education, Govt of India.

- Convenor of hands-on workshop for school students on —Basic and Applied Sciences-organized from 17th -26th June 2019 by Department of Microbiology in collaboration with the Department of Physics, Chemistry and Computer Science, Shaheed Rajguru College of Applied Sciences for Women. Approximately 100 school students attended the workshop.
- Convenor of a LEADearthSHIP, a TERI- GENPECT initiative project titled ‘Sanitation and health, Need of the hour’ started in November 2015, a youth program on leadership and business sustainability primarily for undergraduate and postgraduate students from recognized universities and institutes of higher learning in Delhi- NCR. The project won third position and a cash prize of Rs. 25,000/-
- Convenor of PRAVRIDHI- the Environment Society (Eco Club) of Shaheed Rajguru College of Applied Sciences for the Women since 2005. The club is a part of National Green Corps national program under the Department of Environment, Government of NCT, Delhi, 2001. Pravridhi’s mission is to create and incorporate the concepts of environmental awareness and sustainable development through various activities in and around the college. The society conducts various activities, workshops and interactive sessions that help students in understanding local issues in the global context. Moreover, it aims to instill deeper thought process in finding the solutions to the local problems. The society actively participates and involves itself in eco-campaigns and drives organized by the Government and Non-governmental organizations. Pravridhi-organizes tree plantation drives every year in and around the college with local participation. With its remarkable initiative towards plantation and greenery, the college has been awarded the – Green Award by Delhi Government, 8th March 2017.
- Convenor of ‘Education for All’ program conducted by Education Department of Govt. of NCT, Delhi under National Literacy Mission from 1995-2000.

Refresher courses, workshops, training, faculty development programs attended:

Name of the Course	Academic Year	Place	Duration	Organized by/Sponsoring Agency
Capacity building program for educators on Entrepreneurial Ecosystem- A Step towards Viksit Bharat 2047	2025-26	New Delhi	24 th September 2025 (1 day)	University of Delhi
Skill development in Cultivating Green Future: Plant Tissue	2023-24	New Delhi	22nd -30th March 2024 (9 days)	University of Delhi

Culture and its Applications				
NEP syllabus revision	2022-23	New Delhi	10 th February 2022	University of Delhi, South Campus
Online Workshop on "Building Sustainable Campus" Initiative by UNEP's LBGN	2021-22	New Delhi	17 th -18 th December 2021 (2 days)	TERI School of Advanced Studies
FDP on 'Innovation in scientific research methods'	2020-21	New Delhi	14 th -18 th October 2020 (5 days)	Kirori Mal College, University of Delhi
FDP on Environmental audit	2020-21	New Delhi	28 th June – 2 nd July 2021(5 days)	Kirori Mal College, University of Delhi and Mizoram University
LOCF syllabus revision	2019-20	New Delhi	16 th March 2019	University of Delhi, South Campus
National Workshop on Recent Trends in Instrumentation & Electronics	2015-16	New Delhi	5 th -6 th January 2015 (2 days)	Shaheed Rajguru College of Applied Sciences for women, University of Delhi.
New Frontiers in Global Learning and communications	2014-15	New Delhi	28 th December-2 nd January 2014 (1 week)	Shaheed Rajguru College of Applied Sciences for women, Centre For Entrepreneurship & Career Oriented Program and University of Massachusetts Boston,U.S.A.
Understanding the mechanism and challenges of complex diseases	2014-15	New Delhi	29 th -30 th December 2014 (2 days)	Department of Biomedical Sciences, Shaheed Rajguru College of Applied Sciences for women, University of Delhi.
Use of Technologies in Teaching	2014-15	New Delhi	17 th -18 th October 2014 (2 days)	Centre for Professional Development in Higher Education, University of Delhi.

Bioinformatics and Computational Biology	2005-06	New Delhi	18th -22nd April 2005 (1 week)	Department of Biochemistry, Sri Venkateswara College, University of Delhi.
Department of Biotechnology sponsored workshop on Molecular Taxonomy of the symbiotic Fungi	2003-04	New Delhi	1 st -21 st December 2003 (3 weeks)	Jawaharlal Nehru University.
Analytical Techniques and Instruments for Biological Sciences	2000-01	New Delhi	7 th – 12 th February 2000 (1 week)	Jawaharlal Nehru University.
Recent advances in Molecular Biology	2000-01	New Delhi	12 th April -2 nd May 2001 (3 weeks)	Delhi University
Internationalization of higher education in health sector	2000-01	New Delhi	4 th -6 th January 2001 (3 days)	IEPI, Houston Community College System, U.S.A and the Centre for Entrepreneurship and Career Oriented Programme
Refresher Course in Life Sciences	2000-01	New Delhi	1 st -25 th January 2001 (4 weeks)	UGC sponsored organized by Academic Staff College, Jawaharlal Nehru University
One month training in various aspects of Lab Instruments likes Operation, Troubleshooting and Maintenances, Calibration and Applications at	1999-2000	Mumbai	(15 th May-14 th June 2000)	Western Regional Instrumentation Centre, University of Mumbai

Computer Courses (internet concept & its application, window 95 & Excel, computer concepts, word & power point, MS Access & SPSS)	1999	New Delhi	(May, June, August, September 1999)	Delhi University Computer Centre
Orientation Course (General and Subject Specific)	1997	New Delhi	17 th June-14 th July 1997 (4 weeks)	Centre for Professional Development in Higher Education, University of Delhi.
Gene Expression Systems and their Applications	1995-96	New Delhi	4 th -22 nd December 1995 (Three weeks)	International Centre for Genetic Engineering and Biotechnology.
Four-week training in various departments of Hospital Laboratory Services	1995	New Delhi	26 th December 1994- 20 th January 1995 (4 weeks)	University College of Medical Sciences, New Delhi
Training in Analytical Instruments viz. HPLC, GLC, FT-IR etc. in Ranbaxy Research Laboratories	1994	New Delhi	16 th May- 15 th July 1994 (2 months)	Ranbaxy Research Laboratories

Professional development activities:

S.No	Year	Activity
1	2024-25	Convenor for Mushroom cultivation and faculty development program from October 15 th 2024 to 30 th June 2025 conducted by Enactus Shaheed Rajguru, an entrepreneurial society in collaboration with the Department of Microbiology, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi in association with Microbiologists Society, India.

2	2024	Invited Talk on “Exploring the world of Mushrooms” on the occasion of World Food Day organised by Department of Food Technology, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi on 16 th October’ 2024.
3	2024	Invited Talk on “Cultivating a Fungal Future: Mushroom based Entrepreneurship” organised by Department of Botany, Kirori Mal College, University of Delhi on 11 th October’ 2024
4	2024	Invited Talk on “Mushroom Cultivation: An Indian Scenario” during Skills, Start-Ups and Entrepreneurship Expo and India Mushroom Days organised by School of Open Learning, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Udhamodya Foundation and Milky way technologies on 6 th October, 2024.
5	2024	Member of Apex Advisory Committee for Skills, Start-Ups and Entrepreneurship Expo and India Mushroom Days organized by School of Open Learning, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Udhamodya Foundation and Milky way technologies from 4-6 th October, 2024.
6	2023	Invited Talk on “ Mushrooms: Fungi with Diverse Applications ” during India Mushroom Summit organised by School of Open Learning, Shaheed Rajguru College of Applied Sciences for Women University of Delhi, and Milky way technologies on 21st November, 2023 .
7	2023	Member of Apex Advisory committee for India Mushroom Summit 2023, a joint venture by Milky way mushroom in association with Campus of Open Learning University of Delhi and Shaheed Rajguru College of Applied Sciences for Women, University of Delhi. (20 th -22 nd November 2023)
8	2023	Invited Talk on “ Mushrooms: Fungi with Diverse Applications ” organised by Department of Botany, Deen Dayal Upadhyaya College, University of Delhi on 13th October, 2023
9	2023	Was member of the Organizing Committee of One-Week National Faculty Development Program on <i>Hydroponics and Aeroponics Farming</i> jointly organized by University of Delhi (Department of Botany and SEC Committee); Swami Shraddhanand College, University of Delhi; Shaheed Rajguru College of Applied Sciences for Women, University of Delhi; Chaudhary Charan Singh Hisar Agricultural University (CCSHAU), Hisar and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education from 04 th September to 10 th September, 2023.

10	2023-24	Was member of the Organizing Committee of One-Week National Faculty Development Program on <i>Nursery, Landscaping and Gardening</i> jointly organized by University of Delhi (Department of Botany and SEC Committee); Swami Shraddhanand College, University of Delhi; Shaheed Rajguru College of Applied Sciences for Women, University of Delhi; Chaudhary Charan Singh Hisar Agricultural University (CCSHAU), Hisar and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education from 22 nd August to 28 th August, 2023.
11	2023-24	Was member of the Organizing Committee of One-Week National Faculty Development Program on <i>Floriculture and Horticulture</i> jointly organized by University of Delhi (Department of Botany and SEC Committee); Swami Shraddhanand College, University of Delhi; Shaheed Rajguru College of Applied Sciences for Women, University of Delhi; Chaudhary Charan Singh Hisar Agricultural University (CCSHAU), Hisar and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education from 16 th August to 22 nd August, 2023.
12	2023-24	Was member of the Organizing Committee of One-Week National Faculty Development Program on <i>Organic Farming and Biofertilizers</i> jointly organized by University of Delhi (Department of Botany and SEC Committee); Swami Shraddhanand College, University of Delhi; Shaheed Rajguru College of Applied Sciences for Women, University of Delhi; Chaudhary Charan Singh Hisar Agricultural University (CCSHAU), Hisar and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education from 07 th August to 13 th August, 2023
13	2023-24	Was appointed as State President, Delhi Unit, Microbiologists Society India, 2023-24
14	2023-24	Convenor for Mushroom cultivation and faculty development program from October 9 th 2023 to 3 rd April 2024 conducted by Enactus Shaheed Rajguru, an entrepreneurial society in collaboration with the Department of Microbiology,

		Shaheed Rajguru College of Applied Sciences for Women, University of Delhi in association with Microbiologists Society, India.
15	2023	Convenor for National Conference 2023- Bioentrepreneurship- Academia to Industry organized by Department of Microbiology, Shaheed Rajguru College of Applied Sciences. (23-24 th February 2023)
16	2022	Invited Talk on ‘Mushrooms – The ultimate superfood’ organized by Indraprastha Horticulture Society on 7 th December, 2022.
17	2022	Convenor for Hands-on Workshop “Wonders of Science” on Basic and Applied Sciences for Senior Secondary School Students organized by Shaheed Rajguru College of Applied Sciences for Women and IEEE Electron Device Society. Held from 31 st May to 7 th June 2022
18	2022	Convenor for Mushroom cultivation and faculty development program from October 31, 2022 to April, 2023 conducted by Enactus Shaheed Rajguru, an entrepreneurial society in collaboration with the Department of Microbiology, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi
19	2021	Convenor for Mushroom cultivation and faculty development program from September 10, 2021 to February 22, 2022 conducted by Enactus Shaheed Rajguru, an entrepreneurial society in collaboration with the Department of Microbiology, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi
20	2021	Convenor for online entrepreneurship and faculty development program on ‘Edible mushrooms from lab to farm’ organized by Department of Microbiology, Shaheed Rajguru College of Applied Sciences. (16-19 th February 2021)
21	2020	Convenor for online faculty development program for teaching cum research excellence on ‘Secrets of good research and successful grant proposals’ organized by Department of Microbiology, Shaheed Rajguru College of Applied Sciences. (16-17 th Oct 2020)
22	2019	Convenor for workshop for school students on Basic and Applied Science organized by Department of Microbiology, SRCASW from (17 th -26 th June 2019)
23	2017	Resource person for hands-on session on Plant Tissue Culture Techniques held from 26 th July, 2017 in the UGC, DBT and CSEC (Delhi University) sponsored 7 Day National Faculty Development Program on “Recent Trends in Applied Science Teaching” organized by Shaheed Rajguru College of Applied Sciences for Women. (21 st -27 th July, 2017)

24	2017	Was member of organizing committee during the 7-Day Faculty Development Programme on “Recent Trends in Applied Science Teaching” organized by Shaheed Rajguru College of Applied Sciences for Women. (21 st -27 th July, 2017)
25	2016	Resource person for training workshop for M. Sc. Forensic Science students for teaching various physical, chemical and biological techniques (8 th -13 th Feb 2016)
26	2015	Convener of a project LEADearthSHIP, a TERI- GENPECT initiative, started in November 2015, a youth program on leadership and business sustainability primarily for undergraduate and postgraduate students from recognized universities and institutes of higher learning in Delhi- NCR. Our college won third position and a cash prize of Rs. 25,000/-
27	2015	Was a member of organizing committee for the National Workshop on Recent Trends in Instrumentation & Electronics held in the college. (5 th -6 th January 2015)
28	2011	Was empaneled as an Academic Counsellor for PGDAC of IGNOU for course in Analytical Chemistry. (July 2011)
29	2003	Co-ordinated a workshop with Western Regional Instrumentation Centre, University of Mumbai on Maintenance of Laboratory Instruments for College teachers. (13 th -18 th October 2003)
30	2002	Invited as resources person for taking lectures on biochemical techniques for quality Improvement Programme for teachers organized by College of Pharmacy, University of Delhi. (29 th October -2 nd November 2001, 4 th -8 th March 2002)
31	1995-2000	Convenor for ‘Education for All’ program conducted by Education Department of Govt. of NCT, Delhi under National Literacy Mission From 1995-2000.

Seminars Attended/Participated:

S.no	Year	Seminar attended/ Participated
1.	2025	Participated in International conference on “Trends in Biological Sciences 2025 (TIBS-2025)” organized by School of Life Sciences, JNU New Delhi and ICgeb, New Delhi, India. (8 th -10 th December 2025)
2.	2018	Attended India International Science Festival 2018 – A Curtain Raiser on 24 th September, 2018 conducted by Ministry of Science and Technology.

3.	2011	Selected to participate in “Women’s Education Worldwide” Conference held at Smith & Mount Holyoke College in U.S.A. (31 st May 2011-3 rd June 2011)
4.	2011	Was empaneled as an Academic Counsellor for PGDAC of IGNOU for course in Analytical Chemistry. (July 2011)
5.	2005	Participated in National Seminar on Genetically Modified Organisms-Biosafety Aspects organized by Department of Botany, University of Delhi. (10 th -11 th March 2005)
6.	1997	Participated in a 4-week Orientation Course (General and Subject Specific) conducted by the Centre for Professional Development in Higher Education, University of Delhi. (17 th June-14 th July 1997)

Research Projects completed:

S.No.	Title of Research Project	PI/ Co-PI/Joint PI	Period	Total Grants Received (in rupees)& Name of the Funding Agency
1.	Antimicrobial and Phytochemical studies on some Indian spices against multi drug resistant human pathogens	Co-PI	2013-14	Innovation Project, University of Delhi
2.	Synthesis and Characterization of magnetic nanoparticles for tumor treatment	Co-PI	2015-16	5.5 Lakhs Innovation Project, University of Delhi