


## FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	Dr	First Name	Pratibha	Last Name	Thakur	
Designation	Assistant Professor					
Department	Botany					
Address (Official)	Department of Botany Kalindi College East Patel Nagar University of Delhi New Delhi – 110 008					
Email	pratibha12du@gmail.com					

### Education

Subject	Institution	Year
B.Sc. (H) Botany	University of Delhi	2000
M.Sc. (H) Botany	University of Delhi	2003
M. Phil. Botany	University of Delhi	2006
Ph.D Botany	University of Delhi	2014

Qualified Graduate Aptitude Test in Engineering (GATE, 2005)

### Career Profile

Organisation/Institution	Designation	Duration	Role
University of Delhi	Assistant Editor	2006-2007	Proof-reading and editing of research papers/ Reviews/ Articles in Phytomorphology, An International Journal of Plant Sciences, published by The International Society of Plant Morphologists in Department of Botany, University of Delhi, Delhi.
University of Delhi	Assistant Professor	2014 onwards	Teaching

### Research Interests/Specialization

Anatomy  
Embryology  
Reproductive Biology of Plants  
Environmental Science

## **Administrative Assignments / Contribution to corporate life**

- Member in SSR Committee, Criteria 3 (2016-2020).
- Member in NIRF Committee (2021, 2022, 2024)
- Member in Green Audit Committee (2021-22)
- Member in Placement Cell (2018 and 2022)
- Member in AQAR (2022)
- Member in Admission Core Committee (2020)
- Member in Admission Committee – Ward Quota (2021, 2022, 2023), Life Sciences OBC (2024)
- Member in Outstation and Foreign Students (OFS) Cell (2022)
- Member in Parents Students Teacher’s Interaction (PTSI) Committee (2021 and 2022)
- Member in Library Write-off Committee (2022)
- Member in Library Recycling Committee (2022)
- Member in Nadi Ko Jano Abhiyan Committee (2021)
- Co-convenor in Rangoli Cultural Club (2020, 2021, 2022 and 2023)
- Member in Departmental Purchase Committee (2022, 2023)
- Member in Fee concession Committee (2023)
- Execution Team Member in Execution committee for ‘Science and Laboratories’ in ‘Inventory and Stock Keeping’ for Peer Team Visit 2022
- Member in IQAC for AQAR Committee of Digitalization, Automation Computational Support (2023-24)
- Member in Data Compilation Committee of Department (2023)
- Convenor, Botanical Society – Amaranth (2023)
- Co-convenor in Western Group Dance of ECA Club (2024)
- Member in AISHE (All India Survey of Higher Education) Committee (2024)
- Coordinator in Botanical Society – Amaranth (2024)

### Teaching Experiences (Subject/Courses taught)

- Worked as Assistant Professor (Guest) in Department of Botany, Hansraj College, University of Delhi, Delhi for three semesters from 21.01.14 to 24.04.2015. (Subjects : Cell Biology, Plant Resource Utilisation, Environmental Studies).
- Worked as Assistant Professor (Guest) in Department of Botany, Sri Guru Tegh Bahadur Khalsa College, University of Delhi, Delhi from 08.01.15 to 16.02.2015. (Subjects : Diversity of Archegoniates - Bryophyta and Pteridophyta, Taxonomy).
- Worked as Assistant Professor (Guest) in Department of Botany, Shivaji College, University of Delhi, Delhi from 23.03.15 to 24.04.2015. (Subject : Environmental Studies).
- Worked as Assistant Professor (Guest) in Department of Botany, Dyal Singh College, University of Delhi, Delhi from 05.08.15 to 13.11.15. (Subject : Molecular Biology, Techniques in Plant Sciences, Environmental Studies).
- Worked as Assistant Professor (Guest) in Department of Botany, Hansraj College, University of Delhi, Delhi from 09.01.16 to 25.04.2016. (Subjects : Functional Plant Biology, Molecular biology, Environmental Studies).
- Worked as Assistant Professor (Guest) in Department of Botany, Shivaji College, University of Delhi, Delhi from 27.01.16 to 25.04.2016. (Subject : Plant Ecology and Taxonomy, Cell Biology, Functional Plant Biology).
- Worked as Assistant Professor (Guest) in Department of Botany, Sri Guru Tegh Bahadur Khalsa College, University of Delhi, Delhi from 22.01.16 to 22.04.2016. (Subjects : Molecular Biology,
- Worked as Assistant Professor (Guest) in Department of Botany, Maitreyi College, University of Delhi, Delhi from 06.01.17 to 27.04.2017. (Subjects: Reproductive biology of angiosperms, Ecology and environmental management, Biofertilizers).
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- Worked as Assistant Professor (Guest) in Department of Botany, Miranda House, University of Delhi, Delhi from 11.08.17 to 08.09.2017. (Subject: Analytical techniques in plant sciences, Cell and molecular biology).
  - Worked as Assistant Professor (Guest) in Department of Botany, Daulat Ram College, University of Delhi, Delhi from 26.07.17 to 30.09.2017. (Subjects: Ethnobotany, Anatomy of angiosperms, Reproductive biology of angiosperms).
  - Worked as Assistant Professor (Ad-hoc) in Department of Botany, Kalindi College, University of Delhi, Delhi from 15.09.17 - 15.05.2018 (Subjects: Microbiology and phycology, Biodiversity, Plant anatomy and embryology, Ethnobotany, Plant ecology and taxonomy, Plant physiology and metabolism, Archegoniatae, Environmental studies).
  - Worked as Assistant Professor (Guest) in Department of Botany, Kalindi College, University of Delhi, Delhi from 25.07.18 – 16.11.18 (Subjects: Intellectual Property Rights, Plant anatomy and embryology, Environmental studies).
  - Worked as Assistant Professor (Guest) in Department of Botany, Maitreyi College, University of Delhi, Delhi from 26.07.18 – 16.11.18 (Subjects: Cell and molecular biology, Biostatistics, Plant physiology and metabolism).
  - Worked as Assistant Professor (Guest) in Department of Botany, Kalindi College, University of Delhi, Delhi from 01.01.19 – 29.04.19 (Subjects: Economic Botany and Biotechnology, Environmental studies).
  - Worked as Assistant Professor (Guest) in Department of Botany, Sri Aurobindo College (M), University of Delhi, Delhi from 21.01.19 – 26.04.19 (Subjects: Plant physiology and metabolism, Medicinal botany, Plant ecology and taxonomy).
  - Presently working as Assistant Professor (Ad-hoc) in Department of Botany, Kalindi College, University of Delhi, Delhi from 24.07.19 onwards. Subjects taught : Reproductive biology of angiosperms, Plant anatomy and embryology, Plant biotechnology, Biostatistics, Bioinformatics, Industrial and environmental microbiology, Genetics and molecular Biology, Microbiology and Plant-microbe interactions, Plant diversity and systematics, Cell and molecular Biology,
- Presently teaching subjects (Odd semester 2024): Reproductive biology of angiosperms, Plant cell and developmental biology, Plant diversity and evolution, Plant physiology and metabolism.

## Publication (Peer Reviewed/Indexed Journals)

### Papers/Chapters Published

- **Pratibha Thakur** and A. K. Bhatnagar (2013) Pollination constraints in flowering plants – Human actions undoing over hundred million years of co-evolution and posing an unprecedented threat to biodiversity. *The International Journal of Plant Reproductive Biology* 5(1) Pp 29-74.
- Koul and **Thakur** (2016) Plantation of shrubs in urban areas to contest airpollution. Proceedings of the National Seminar on Water and Air Quality in Urban Ecosystem, New Delhi, 22 March 2016. Pp. 62-67 (ISBN: 978-93-5267- 493-0).
- **Pratibha Thakur** and Ishwar Singh 2017 An overview of various threats to biotic -pollination in flowering plants In: Som Dutt, Ashu Tyagi, Harish Pal Bhati, Harjeet Singh (eds), *Advances in Life Sciences*, S. R. Scientific Publication, Delhi, Agra. pp. 240-255.
- **Pratibha Thakur** and Ishwar Singh 2018 Biocontrol of Soilborne Root Pathogens: An Overview In: In B. Giri et al. (eds), *Root Biology, Soil Biology*, Springer International Publishing AG, part of Springer Nature, Volume 52, Pp. 1-41([https://doi.org/10.1007/978-3-319-75910-4\\_7](https://doi.org/10.1007/978-3-319-75910-4_7))
- Monika Koul, **Pratibha Thakur** and A.K. Bhatnagar (2018) Pollination limitation: A threat to biodiversity and food security. *Journal of Food, Agriculture and Environment* 16(2), 76-80.
- **Pratibha Thakur** (2019) Can biodegradable bioplastics be sustainable and eco friendly alternative to traditional plastics? *The Botanica* 68: 73-81 (2018-19), published by Delhi University Botanical Society (DUBS), Department of Botany, University of Delhi. (ISSN 0045-2629).
- Nisha, Amardeep, Taruna, **Pratibha**, Vijay Kr. Lamba (2019) Effect of orientation on charge transport in molecular junctions. *International Journal of Scientific & Technology Research* 8 (11), 3334-3338 (ISSN:2277-8616).
- Ojha, S. Jaiswal, **P. Thakur**, S. K. Mishra (2022) Bioremediation techniques for heavy metal and metalloids removal from polluted lands: a review. *International Journal of Environmental Science and Technology*, 19(9): 1-22. (ISSN: 1735-1472).<https://doi.org/10.1007/s13762-022-04502-3>.
- Jaiswal, S., Ojha, A., **Thakur, P.**, & Mishra, S. K. (2023). Functional Importance of endophytic Microorganisms in Plant Growth Promotion Bioactive Compound Production for Sustainable Agriculture. *Defence Life Science Journal*, 8(1), 93-108. <https://doi.org/10.14429/dlsj.8.17944>
- Singh, I., **Thakur, P.** (2023). Impact of Fungi on the World Economy and Its Sustainability: Current Status and Potentials. In: Singh, I., Rajpal, V.R., Navi, S.S. (eds) *Fungal Resources for Sustainable Economy*. Springer, Singapore. pp 3–37. [https://doi.org/10.1007/978-981-19-9103-5\\_1](https://doi.org/10.1007/978-981-19-9103-5_1)

### **Seminar/Workshop/Conferences Presentation/Organization**

- Subject Resource Person in the Faculty Enrichment Webinar for Life Science Teachers in Higher Education organized by National Resource Centre for Education on January 14, 2021 at NIEPA, New Delhi.
- Resource person for Online Capacity Building Workshops for Teachers, organized by NCSTC, Department of Science & Technology, Govt. of India and Millenium India Education Foundation (MIEF) for South East Delhi and Shahdara – North East Delhi District Schools for Life Sciences, held from 3<sup>rd</sup> to 5<sup>th</sup> Nov., 2022.
- Resource Person as ‘Low Cost No Cost Capacity Building Workshop for Teachers’ on ‘Life Sciences’ from “28<sup>th</sup> to 30<sup>th</sup> September, 2002, for Central Delhi District Schools, organized by Millenium India Education Foundation (MIEF), H.M. D.A.V. Sr. Sec. School, Darya Ganj and catalysed and supported by NCSTC Div., Department of Science & Technology, Govt. of India.

### **Oral and Poster Presentations**

- Participated and presented poster entitled “Algal Biomass Valorisation – A shift towards sustainable and green economy” at workshop on ‘Advances in Microbial biomass conversion into green energy and value added products’, jointly organized by Division of Microbiology, ICAR-IARI, New Delhi, under the Aegis of Academy of Microbiological Sciences and Association of Microbiologists of India at ICAR-IARI, New Delhi, on January, 18, 2024.
- Participated and presented paper entitled “Food Security - A Juncture to Boost Plant Science Research” in Two-day National e-Conference held on 16<sup>th</sup> – 17<sup>th</sup> January 2021, Organized by Department of Botany, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, Delhi-110007.
- Thakur, Pratibha & Bhatnagar, A. K. (Oral) “Reproductive biology of mangrove *Lumnitzera racemosa* Willd. at Karwar (Karnataka, India). In First Global Congress on “Plant Reproductive Biology” organized by The Society of Plant Reproductive Biologists, Agra, October 22-24, 2010.
- Thakur, Pratibha & Bhatnagar, A. K. (Oral) “Reproductive biology of mangrove *Lumnitzera racemosa* Willd. (Combretaceae)”. In 3<sup>rd</sup> Global Congress on “Plant Reproductive Biology, Conservation and Crop Improvement” organized by The Society of Plant Reproductive Biologists, Agra, December, 15-17, 2014.
- Monika Koul and Pratibha Thakur (Poster) “Plantation of shrubs in urban areas to contest air pollution”. In National Seminar on Water and Air Quality in Urban Ecosystem, organized by Eco Club Shivaji College, University of Delhi, Raja Garden, New Delhi, March 22, 2016.

## Abstracts Published in International and National Conferences

- Thakur, Pratibha & Bhatnagar, A. K. Reproductive biology of mangrove *Lumnitzera racemosa* Willd. at Karwar (Karnataka, India). In First Global Congress on “Plant Reproductive Biology” organized by The Society of Plant Reproductive Biologists, Agra: 45 (Abstract), Oct 22-24, 2010.
- Bhatnagar, A. K. & Thakur, P. Conservation of biodiversity in North-Eastern India– Need for integration in research and educational curricula. National Seminar on “Diversity Conservation and Sustainable Utilization of Plants and Traditional Knowledge in Eastern Himalaya” organized by Department of Botany, University of North Bengal and East Himalayan Society for Spermatophyte Taxonomy, 17 (Abstract), Dec 14-16, 2010.
- Bhatnagar, A. K. & Thakur, Pratibha Flowering Plants Facing World Wide Pollinator Decline and Pollination Constraints. In 2nd Global Congress on “Plant Reproductive Biology (PRB-2012)” organized by The Society of Plant Reproductive Biologists, Hungary : 26 (Abstract), April 15-18, 2012.
- Bhatnagar A. K. & Pratibha Thakur Vanishing Pollinators – A Threat to Biodiversity. In National Conference on Recent Trends on Plant Diversity and Conservation Strategies, organized by Department of Botany, Nagaland University with East Himalayan Society for Spermatophyte Taxonomy (EHSST):19-20 (Abstract) September 29-30, 2012.
- Bhatnagar, A.K & Thakur, Pratibha Pollination Decline: A Threat to Biodiversity and Food Productivity. In International Conference on Biotechnology: A Rendezvous with Basic Sciences for Global Prosperity, organized by Society of Plant Research, New Delhi : 21 (Abstract), December 26-27, 2012.
- Bhatnagar A.K. & Pratibha Thakur Pollination Limitation – A Major Threat to Biodiversity and Crop Productivity. In National Seminar on Current Environmental Challenges and Possible Solutions, organized by: Department of Botany, Ramjas College, University of Delhi, Delhi : 5-6 (Abstract) February 15-16, 2013.
- Thakur Pratibha & A. K. Bhatnagar “Reproductive biology of *Lumnitzera racemosa* Willd. for its restoration in Indian mangroves”. In 5<sup>th</sup> World Conference on Ecological Restoration held at Madison, Wisconsin, USA : 174 (Abstract), October 6–11, 2013.
- Akanksha Madan, Pratibha Thakur & A.K. Bhatnagar ”Sustenance of Orchid Diversity requires Simultaneous Conservation of Pollinators”. In National Conference on Orchids: Conservation,

Improvement and Sustainable Development & Orchid Show, Organised by The Orchid Society of India (TOSI), Department of Botany, Panjab University, Chandigarh – 160014 jointly with College of Horticulture, Kerala Agriculture University, Vellanikkara –680656, Thrissur Kerala (Abstract), March 13-15, 2014.

- Thakur, Pratibha & Bhatnagar, A. K. “Reproductive biology of mangrove *Lumnitzera racemosa* Willd. (Combretaceae)”. In 3rd Global Congress on “Plant Reproductive Biology, Conservation and Crop Improvement” organized by The Society of Plant Reproductive Biologists, Agra 27 (Abstract), December, 15-17, 2014.
- Bhatnagar, A. K., Koul, Monika & Thakur, Pratibha “Pollination limitation: A threat to biodiversity and food production”. In 3rd Global Congress on “Plant Reproductive Biology, Conservation and Crop Improvement” organized by The Society of Plant Reproductive Biologists, Agra 39 (Abstract), December, 15-17, 2014.
- Madan Akanksha, Thakur Pratibha, Uniyal P.L. & Bhatnagar A.K. “Specialized pollination mechanism proving a handicap for Orchids in the changed Global scenario”. In 3rd Global Congress on “Plant Reproductive Biology, Conservation and Crop Improvement” organized by The Society of Plant Reproductive Biologists, Agra 40 (Abstract), December, 15-17, 2014.
- Bhatnagar A. K. & Pratibha Thakur “Pollination constraints in flowering plants – Human actions undoing over hundred million years of co-evolution and posing an unprecedented threat to biodiversity”. In 3rd Global Congress on “Plant Reproductive Biology, Conservation and Crop Improvement” organized by The Society of Plant Reproductive Biologists, Agra 42-43 (Abstract), December, 15- 17, 2014.
- Monika Koul and Pratibha Thakur “Plantation of shrubs in urban areas to contest air pollution”. In National Seminar on Water and Air Quality in Urban Ecosystem, organized by Eco Club Shivaji College, University of Delhi, Raja Garden, New Delhi 72-73 (Abstract), March 22, 2016.
- Deeksha Prakash Singh and Pratibha Thakur (2021) Food Security: A Juncture to Boost Plant Science Research in Two-day National e-Conference on ‘Plant Science Research: Relevance, Funding, Challenges and Opportunities’ organized by Department of Botany, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, Delhi, pp. 10 (Abstract), January 16<sup>th</sup> – 17<sup>th</sup>, 2021.



### **Conferences / Seminars/Workshops Attended**

- National Seminar on “Genetically Modified and Transgenic Food Crops”, November 26-27, 2002 organized by Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi.
- International Symposium on “Ecology of Biological Invasions”, December 4-6, 2003 in School of Environmental Studies, University of Delhi, Delhi.
- National Seminar on “Relevance of Botany in the Conservation and Improvement of Plants”, February 8-9, 2006 organized by Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi.
- National Seminar on “Current Trends in Plant Sciences”, February 15-16, 2007 organized by Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi.
- National conference on “Wetlands, Science and Society – An Assessment of their Integration”, December 11-13, 2007 organized by Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi.
- Workshop on “Information Literacy & Competency”, February 19-20, 2014 organized by Delhi University Library System, University of Delhi, Delhi.
- Workshop on “Research Metrics”, February 26, 2015 organized by Research Council & Delhi University Library System, University of Delhi, Delhi.
- National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective, March 02-03, 2015 supported by DST-SERB organized by Department of Botany, Deen Dayal Upadhyaya College, University of Delhi, Delhi.
- National Seminar on Water and Air Quality in Urban Ecosystem, March 22, 2016 organized by Eco Club Shivaji College, University of Delhi, Raja Garden, New Delhi.
- Workshop on ‘Preservation and Conservation of Knowledge and Practices of North East for sanitation, Cleanliness and related Medical issues’ on 27 February 2017 at Indian Habitat Center, Lodhi Road, New Delhi.
- Workshop on ‘Labour and Employment Issues in North East India’ on 18<sup>th</sup> April, 2017 organized by IBSD Miranda House centre for North east studies, Miranda House, University of Delhi, Delhi.
- Workshop on ‘Biofertilizers’ on February 2-3, 2017, at Department of Botany, SGBT Khalsa College, University of Delhi, Delhi.
- Regional workshop on ‘Research based Pedagogical tools’ on June 1-3, 2017 at Global group of Institutions, Ropar, Punjab; funded by Department of Biotechnology (DBT), Govt. of India and organized by Center of Excellence in Science and Mathematics Education, Indian Institute of Science Education and Research (IISER) Pune (supported by MHRD, Govt. of India) and Global Group of Institutions, Ropar.
- STEM Teacher Training Workshop on ‘Research based Pedagogical tools’ (level- 1) from October

11 to 14, 2017 at Sacred Heart College, Kochi, Kerala, jointly sponsored by Department of Biotechnology (DBT), Govt. of India; Newton Bhabha Fund of the British Council; Center of Excellence in Science and Mathematics Education, Indian Institute of Science Education and Research (IISER) Pune (supported by MHRD, Govt. of India) and Sacred Heart College, Kochi, Kerala.

- STEM Teacher Training Workshop on ‘Research based Pedagogical tools’ (level- 2) from December 6 to 8, 2017 at Indian National Science Academy, New Delhi jointly sponsored by Department of Biotechnology (DBT), Govt. of India; Newton Bhabha Fund of the British Council; Center of Excellence in Science and Mathematics Education, Indian Institute of Science Education and Research (IISER) Pune (supported by MHRD, Govt. of India).
- Faculty Development Programme on ‘Industrial and Environmental Microbiology under the aegis of DBT Star College Project, GOI, organized by Department of Botany, Daulat Ram College, University of Delhi, Delhi on March 19-20, 2018.
- Workshop on Intellectual Property Rights (IPR): Current Status and Future Prospects organized by Department of Botany, Maitreyi College, University of Delhi on 3<sup>rd</sup> October, 2018.
- One week AICTE-sponsored Faculty Development Programme (FDP) on Universal Human Values for Student Induction Programme at Indian Institute of Technology, Mandi, Himachal Pradesh from 30<sup>th</sup> June to 06<sup>th</sup> July, 2019.
- Workshop on Intellectual Property Rights (IPR), organized by PHYTOMICS - The Botanical Society, Bhaskaracharya College of Applied Sciences, University of Delhi, sponsored by DBT, Government of India, on 26<sup>th</sup> August 2019.
- One day conference and workshop series on “Global Standards for Assessments in a Digital First World: A Future Perspective”, hosted by India-ATP, a Regional Division of the Association of Test Publishers at India Habitat Centre, Lodhi Road, New Delhi on 20<sup>th</sup> December 2019.
- Participated in First IIT Ropar Soft matter Spring School, organized by the Department of Chemical Engineering on February 15-16, 2020 at IIT, Ropar, Punjab.
- Five days online workshop (training programme) on Basic Bioinformatics Tools & Techniques by Center for Bioinformatics, Computational and Systems Biology, from 1<sup>st</sup> to 5<sup>th</sup> November, 2020.
- Webinar on “New Education Policy 2020: Transformational Features and Challenges” organised by IQAC, Kalindi College, on Dec. 11, 2020.
- Biodeterioration and Conservation of Heritage Surfaces"organised by the Department of Botany, and IQAC, Kalindi College on 17th December, 2020.
- International Conference Effective Strategies for Biodiversity Conservation, Daulat Ram College, 23-24 March, 2021.
- Webinar on Earth & Climate Change Impacts-Can carbon capture, utilization & Sequestration (CCUS) address the issues”, held on 22nd April, 2021, organised by the Department of Botany, Bhaskaracharya College of Applied Sciences, University of Delhi.
- Webinar on 'Symbiosis : When living together is a win-win' organized by the International Symbiosis Society on July 30, 2020, sponsored by SPRINGER NATURE.
- A National Web Series-cum-Training Programme ‘EDU-KUBOT- 3.0’, on the topic “Tree Communications in the Forests” on June 22nd, 2020, organised by Department of Botany, Kurukshetra University, in collaboration with Corporate Resource Centre (Under RUSA 2.0).

- Two days National **e-Conference** on “Plant Science Research: Relevance, Funding, Challenges and Opportunities” organised by Department of Botany, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi, from (16th January- 17th January, 2021).
- One week **Faculty Development Programme** on “Research Essentials” organized by Department of Computer Science & Engineering held at Chandigarh University, Mohali (Punjab) from 31<sup>st</sup> January to 5<sup>th</sup> February, 2022.
- **International Seminar** on “Ecosystem Restoration” on 5th June, 2021, organized by The Environmental Society, P.G.D.A.V. College.
- **National Webinar** on “Plant Metabolic Engineering” held on 15th June 2021, organised by the Department of Plant Biology and PlantBiotechnology, Guru NanakCollege (Autonomous), Guru Nanak Salai, Velachery, Chennai - 600 042.
- International Webinar National Resources Management in India - Past and Presentheld on March 21, 2021, organised by Biodiversity Conservation Foundation.
- National level online **Faculty Development Programme (FDP)** on “**Publish to Prosper**” held on 14.06.2021, organizedby the Department of Business Administration (BBA) in association with Guru Nanak Centre for Research (GNCR), Guru Nanak College (Autonomous), Velachery, Chennai.
- International Webinar on Water Conservation : Nature based solution to Climate Change organised by Biodiversity Conservation Foundation, March 22, 2021.
- Two weeks (online) Interdisciplinary Faculty development programme on “MOOC,s, E-content development, research Methodology and statical tools in open education world” from 3 to 17 August 2021 organised by kalindi college in collaboration with MHFDC Hans Raj college, University of Delhi, Delhi.
- One week international (online) multidisciplinary Faculty development programme on “Applications of Genomics, Metagenomics and Bioinformatics in Biological Systems” from 16 to 20 August 2021 organised by Sri Aurobindo College and ICMR AIIMS Computational Genomics Centre in collaboration with MHFDC, Hans Raj College, University of Delhi, Delhi.
- One Week (Online) Interdisciplinary Faculty Development Programme on “Creation and development of MOOCs while managing online classes” (24th August – 31st August 2021) organised by Keshav Mahavidyalaya, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre HansrajCollege, University of Delhi.
- National seminar (online) to celebrate the “International Day for the Preservation of the Ozone Layer ‘2021” organized by Geo Crusaders: The Environmental Society, P.G.D.A.V College and Department of Environmental Studies, P.G.D.A.V. College, held on 16th September, 2021.
- National Webinar on “Intellectual Property Rights: Issues and Challenges” organized by Department of Botany, Deen Dayal Upadhyaya College University of Delhi, from 24<sup>th</sup> to 25<sup>th</sup> September, 2021.
- Three days International Online Workshop on “Structural Equational Model (SEM) and Confirmatory Factor Analysis (CFA) using Analysis of Moment Structure (AMOS), organized by Institute for Statistics and Analytical Research (ISAR), Chennai from 25<sup>th</sup> to 27<sup>th</sup> September, 2021.

- Five days Faculty Development Programme (FDP), on “Basics of Research, Parametric and Non-parametric Statistics, regression and Exploratory Factor Analysis (EFA)” conducted by Department of Management Studies, Delhi College of Technology and Management, Palwal from 27<sup>th</sup> September 2021 to 01<sup>st</sup> October 2021.
- Participated in an online event on “Let Food Be Thy Medicine” organized by the Department of Biochemistry, Shaheed Rajguru College of Applied Sciences for Women, on 28<sup>th</sup> September, 2021.
- National Webinar on “Fight Against Tobacco” organized by the Anti-Tobacco Committee in collaboration with IQAC, Kalindi College, University of Delhi, on 16<sup>th</sup> October, 2021.
- National Webinar & Quiz on “Environmental Sustainability - Ethics & Reverence for Life” organised by the Department of Business Administration, MAIMS, under the aegis of IQAC on 21<sup>st</sup> September 2021.
- Webinar on “Tools & Techniques for Avoiding Plagiarism in E-Content Development” Organized by E- Content Development Committee, Kalindi College, University of Delhi on 9<sup>th</sup> November, 2021.
- One week online workshop on “Statistical Data Analysis in Research with MS Excel” organized by Pathfinder Research and Training Foundation at Centre for Bioinformatics, Computational and Systems Biology, from 13<sup>th</sup> to 17<sup>th</sup> November, 2021.
- Webinar on “How to avoid predatory publishing? What Researchers can do?” organized by Research committee, Kalindi College on July 24, 2021
- Webinar on “Intellectual Property Rights in Academics” organised by the Research Committee, Kalindi College in collaboration with IQAC on 30 September 2021.
- Two-days online training course on ‘Conservation Issues in India, organised by Central Academy for State Forest Service (CASFOS) Dehradun, Uttarakhand, Ministry of Environment, Forest and Climate Change, Government of India from 27<sup>th</sup> to 28<sup>th</sup> January 2021.
- National Webinar on "Western Ghats: Biological Capital of India" organized by Department of Botany (under the aegis of IQAC), Shivaji College, on World Environment Day; 4<sup>th</sup> June 2022.
- National Conclave on “Environment and Happiness” organized by Bharat Vikas Parishad (Project Environment) in collaboration with Centre for Himalayan Studies (University of Delhi) Himalayan Study Circle (Miranda House) held on 11<sup>th</sup> November, 2022 at Paintal Memorial Golden Jubilee Auditorium, Vallabhshai Patel Chest Institute, University of Delhi.
- Workshop on Data Analysis” organized by Vallabhshai Patel Chest Institute (VPCI), University of Delhi, Delhi on December 8, 2022.
- Workshop on Hydroponics – Smart Urban farming organized by Department of Botany, Kirori Mal College, University of Delhi in collaboration with Indian Agriculture Research Institute (IARI), New Delhi on 11<sup>th</sup> March, 2023.
- International Workshop (online) on “Making Successful Academic Presentations” organized by Global Institute of Statistical Solutions (GISS) from May 12<sup>th</sup> to 14<sup>th</sup> 2023.
- Workshop on “Planning, conducting and writing up of small research projects” organised by Institution Innovation Council & Research Development Cell, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on 28<sup>th</sup> July, 2023.

- Workshop on “Mushroom Cultivation and Post-harvest Management” organised by BOTANIQUE (The Botanical Society), Hansraj College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on 25<sup>th</sup> October, 2023.
- Workshop on ‘Advances in Microbial biomass conversion into green energy and value-added products’, jointly organized by Division of Microbiology, ICAR-IARI, New Delhi, under the Aegis of Academy of Microbiological Sciences and Association of Microbiologists of India at ICAR-IARI, New Delhi, on January, 18, 2024.
- Participated in FDP on “Disaster Risk Management” organized by Disaster Management Cell, Kalindi college, in collaboration with National Institute of Disaster Management (NIDM) Ministry of Home Affairs, Govt. of India at Kalindi College, University of Delhi from 20<sup>th</sup> to 24<sup>th</sup> May (40hrs), 2024.

#### **Other Details :**

- Participated and presented in the UNU-INWEH-UNESCO sponsored International Training Course on ‘Coastal Biodiversity in Mangrove Ecosystems’ at Centre of Advanced Study in Marine Biology, Parangipettai, India, organized by Annamalai University from November 3-17, 2008.
- Participated in Training Programme on DNA Fingerprinting and get expertise on molecular techniques (RAPD, ISSR) under the supervision of Dr. Rakesh Singh in National Research Centre on DNA Fingerprinting (NRC-DNAFP), National Bureau of Plant Genetic Resources, New Delhi from July 14, 2009 - November 30, 2009.
- Fellow of The Society of Plant Reproductive Biologists (FSPRB) for valuable contribution in field of plant reproductive biology.
- Contributed Cover Page Photograph for the book ‘Plant Reproductive Biology and Conservation’ edited by Rupam Kapoor, Inderdeep Kaur and Monika Koul.

#### **Participation in College Activities**

- Judge for the intercollege debate competition on topic “Is grading system better than marking system?” conducted as one of the events of Annual Botanical Festival “ASTER”, held on 27<sup>th</sup> September, 2019.
- Judge for the ‘Talent Hunt show’ conducted as one of the events of Annual Departmental Festival ‘Azalea’ of ‘The Biochemical Society’, held on 30<sup>th</sup> September, 2019.
- Organizer and Judge at interdepartmental E-presentation competition on “Pollen Biology-A microscopic wonder of flowering plants” on 22<sup>nd</sup> January, 2020 at Department of Botany.
- Organizer of a scientific talk on “Plant Tissue Culture and its Applications” delivered by Dr Chitralekha, Associate Professor in Dyal Singh College, for Botany (H) and Life Science students on 3<sup>rd</sup> March, 2020 at Department of Botany.

- Member of the Organizing committee of a practical cum hands on training session organized for students of B.Sc. (H) Botany and B.Sc. Life Sciences on 'Plant Physiology' by Dr Shashi Tyagi (Gargi College), at the occasion of The Biochemical Society Festival 'Azalea' on 30<sup>th</sup> September, 2019 at Department of Botany.
- Organized science quiz competitions as part of weekly departmental activity for students of B.Sc. Botany and Life Sciences (2019-20).
- Member in committees of Fashion-Is-Ta (Fashion Show) and Mementoes & Bouquets (Chief guest) during Inter College Cultural Festival LEHREN-2020 (held on 26<sup>th</sup>-27<sup>th</sup> February, 2020).
- Convener of the Wall Magazine and Notice Boards of Botany Department (2019-2021).
- Co-convenor of an online Intra-College Rangoli Competition, Under Rangoli Cultural Club on 22<sup>nd</sup> September, 2021.
- Co-convenor of an online Intra-College Rangoli Competition, Under Rangoli Cultural Club on 25<sup>th</sup> January, 2022.
- Co-convenor of an Inter-College Rangoli Competition, Under Rangoli Cultural Club on 12<sup>th</sup> April, 2022.
- Co-convenor of an Intra-College Rangoli Competition, for celebrating 100 years of Delhi University, under Rangoli Cultural Club on 19<sup>th</sup> October, 2022.
- Co-convenor of an Inter-College Rangoli Competition, organized on the occasion of college festival "Lehren 2023", based on the theme "UTHSAV" under Rangoli Cultural Club on 15<sup>th</sup> February, 2023.

#### **Professional Societies Memberships**

- Life Membership – Delhi University Botanical Society (DUBS), Department of Botany, University of Delhi, Delhi.
- Life Membership – The Society of Plant Reproductive Biologists (SPRB), Agra.