



Faculty Details Proforma For College Website



Title	Dr.	First Name	MEENAM	Last Name	BHATIA	Photograph
Designation		ASSOCIATE PROFESSOR				
Address		FLAT NO. 9, TEACHER'S FLAT, DAULATRAM COLLEGE				
Phone No. Office		011-27667863				
Residence		8383808760				
Mobile No.		9968321588				
Email – ID		meenambhatia@dr.du.ac.in.				
Joining		30th November 2005				
Educational Qualification :						
Degree		Institution			Year	
Ph. D.		Department of Botany, Delhi University, Delhi			2021	
M.Sc		Department of Botany, University of Rajasthan, Jaipur.			2003	
B.Sc		Maharani College, University of Rajasthan, Jaipur.			2001	
NET & CSIR-UGC JRF		CSIR, Delhi			2002	
SLET		Rajasthan Public Service Commission, Rajasthan.			2005	
Career Profile						
Presently working as an Associate Professor, with over 20 years of teaching experience. During this time, I have studied and taught a variety of subjects, including Plant Physiology, Plant Metabolism, Functional and Developmental Anatomy, Cell Biology, Plant Diversity, Systematics, Archegoniates, Microbiology, and Biochemistry. I have taught these subjects to students across the first, second, and third years of the B.Sc. (Hons.) Botany and B.sc. Program courses, as well as to students in B.sc. Life Science, B.sc. General, and those taking subsidiary papers in B.sc. Zoology. I have published numerous research articles in national and international peer-reviewed journals. I received a gold medal from the Indian Fern Society in recognition of my outstanding research in Pteridology. I have presented many research papers and posters at national and international symposia and conferences. I have also chaired and co-chaired sessions at the International Symposium and the National Symposium. I have been a member of the panel at the Sustainability Conclave on “Youth innovation for a climate-resilient planet”, organised by the Amity Institute of Environmental Sciences, Amity University, Noida, Uttar Pradesh, in collaboration with the Ministry of Earth Sciences, on 20th March, 2025. I have always aimed to extend my teaching and learning experiences to school teachers who can inspire young minds to take an interest in research related to basic Plant Sciences. With this approach, I have served as a resource person in webinars conducted by the Human Resource Development Centre of the Delhi Public School Society in India for Biology educators of the Delhi Public Schools. In addition to dedicated teaching and learning of the subject, I have also guided students in innovation projects, various SDPs, and internships. To develop and strengthen students' skills, abilities, and scientific aptitude, I have organised numerous capacity-building workshops for students on topics such as Enhancing Learning Through ICT Tools, Skill-based course workshop, Mushroom Cultivation, Intellectual Property Rights and Biological Resources, and Learning Reproductive Biology with Fluorescence Microscopy, etc. I have also served as a resource person for many workshops and in-house skill development programs for students and non-teaching staff on Basic Laboratory Techniques, Digital learning, Embracing Sustainability, etc. I believe in hard work and sincerity, and I continuously explore						

innovative pedagogical methods that extend learning beyond traditional limits by integrating online resources and field trips. By combining theoretical and practical approaches, I aim to create a comprehensive learning platform featuring hands-on projects, especially for fourth-year students, while fostering a collaborative and reflective environment through group projects and peer reviews. Furthermore, I intend to foster a culture of interdisciplinary research, particularly in areas such as sustainable agriculture and environmental resilience, through partnerships with industry and community stakeholders. By translating our research into practical solutions, we will contribute to addressing societal challenges and driving economic growth. I remain deeply committed to nurturing a culture of excellence, inclusivity, and continuous improvement, ultimately preparing our students to thrive in a rapidly evolving global landscape.

Administrative Assignments

- **TIC Botany Department** 2025-26.
 - **TIC Botany Department** 2021-22.
 - **TIC Botany Department** 2010-11.
 - **TIC Life Science Department** 2022-23:
 - **Convenor, Prize Committee** 2021-2022.
 - **Convenor, Prize Committee** 2022-2023.
 - **Deputy Superintendent** for Theory examination Category A 2024 (May-June).
 - **Deputy Superintendent** for Theory examination Category B 2024 (June-July).
 - **Deputy Superintendent** for Theory examination Category B 2015 (June-July).
 - **EVS Coordinator** for Semester Examination May/June 2022.
 - **Co-Convenor, Admission Committee** for UG 2025-26.
 - **Co-Convenor, Admission Committee** for PG 2025-26.
 - **Extended committee of IQAC for screening of APAR** 2024-25
 - **Convener: Students' Amenities Committee** 2018-2019.
 - **Convener: Spic Macay** 2018-2019.
 - **Convener: Garden Committee** 2020-2021
 - **Observer**, Facilitates smooth conduction of interviews for appointing Ad-hoc faculty in different departments at DRC from 2012-2014.
 - **Member College Grievance Committee**, Oct 2023-24.
 - **Practical in Charge** for Practical Examination of Botany 2025-26.
 - **Deputy Superintendent** for Practical Examination of Botany 2021-22.
 - **Deputy Superintendent** for Practical Examination of Botany 2011-12.
 - **Botanical Association (Vasundhara) in Charge** 2021-22, 2014-2015, 2008-2009.
 - **Life Science Association (Astitva) in Charge** 2022-23.
- Committees work with
- Discipline committee 2025-26, 2007-2008, 2008-2009, 2009-2010, 2013-14
 - Prize committee 2025-26, 2021-22, 2022-23, 2011-12
 - Purchase committee 2025-26, 2021-22, 2022-23, 2011-12
 - Admission committee 2025-26, 2021-22, 2022-23, 2011-12
 - Time Table committee 2025-26, 2021-22, 2011-12
 - Library committee 2024-25
 - Garden committee 2023-24, 2024-25, 2006-2007, 2007-2008, 2008-2009, 2012-2013, 2013-2014, 2020-2021
 - Teaching Program committee 2022-23, 2014-15, 2008-09
 - Screening committee, for permanent appointment of Teachers in Physics Department 2020-21
 - Screening committee for permanent appointment of Teachers in Political Science Department 2020-21
 - Screening committee for permanent appointment of Teachers in the Dept. of Biochemistry 2014-15
 - Screening committee for permanent appointment of Teachers in the Dept of Music 2014-15
 - Canteen Committee 2006-07, 2007-08, 2010-2011, 2014-15.
 - Staff Amenities committee 2011-2012, 2012-13

- Disaster Management committee 2021-22
- Eco-Club 2006-07, 2007-08, 2008-09
- Extra-curricular committee 2005-2006, 2008-2009, 2010-11, 2012-13
- Grievance committee 2007-2008, 2008-2009, 2009-2010, 2023-24
- Student Advisory board 2005-2006, 2016-2017
- Student Amenities Committee 2009-2010
- Moderation committee for IA/CA 2020-21, 2021-22, 2022-23, 2024-25, 2025-26,
- Gandhi study circle 2018.
- Poetry society 2024-25.

Areas of Interest / Specialization

Biodiversity and its conservation, Reproductive Biology of Ferns, Archegoniate, Plant Anatomy, and Biochemistry, Plant Physiology.

Subjects Taught

Even Sem (2025-26)

VI Sem H– Plant Metabolism – PR

IV SEM II H- Developmental Biology of Plants: structure and function - TH +PR.

II SEM I H- Microbiology- PR

II SEM I H- Plant Systematics- PR

Odd Sem (2025-26)

V Sem H– Plant Physiology – TH+ PR

III Sem H: Bryophyte, Pteridophyte and gymnosperm - TH+ PR

V Sem Life Science– Plant Physiology & metabolism – PR

Research Guidance

- Supervising a student of Amity University for her PhD degree as an external guide.
- Supervised fourth-year students for their dissertations.
- Supervised ten undergraduate students for innovation project DR-203: 2013.
- Supervised ten undergraduate students for the innovation project DR-303: 2015.

Publications Profile

Research Articles:

- In vitro development of gametophyte and sporophyte in the epiphytic fern *Phlebodium aureum* (Polypodiaceae). Meenam Bhatia, Pratibha Kumari, Aradhana Yadav, P.L. Uniyal. (7 June 2026). Lilloa. 63 (1): 213-226. doi: <https://doi.org/10.30550/j.lil/2346>
- Transport and transformation pathways of pharmaceuticals, endocrine-disrupting compounds, and PFAS in aquatic systems. Niketa Bhati, Harshita Jain, Meenam Bhatia and Lovepreet Singh. (21 April 2026). Water Quality Research Journal Vol 00 No 0, 1 doi: 10.2166/wqrj.2026.108
- Exploring the impact of mycorrhizae on phytochemical and secondary metabolites in medicinal plants.

- Devayani Muley, Pratibha Kumari, Meenam Bhatia, and Aradhana Yadav. (25 March 2026). Medicinal Plants - International Journal of Phytomedicines and Related Industries. 18(1): 32-46. DOI: 10.5958/0975-6892.2026.00006.2
- Species richness, substrata preference, and phorophyte specificity of North-Western Indian Himalayan moss species. (6 Jan 2016). Anshul Dhyani, Siddhartha Kaushal, Kumar Shantanu, Sanavar Soham, Meenam Bhatia, Prem Lal Uniyal. 2026. Environ Monit Assess 198, 91 (2026). <https://doi.org/10.1007/s10661-025-14925-3>
 - Decoding the NCBI Database: A Gateway to Computational Biology and Biomedical Research. 2025. Vivek Chopra, Rajesh Kumar, Meenam Bhatia, Puneet Bansal, Gouri, Priyanshi, Yukti Kasodniya, Priyanka Panwar, Nayan Chakraborty, Abhishek Bhatt, Purna Kumari, Anupriya, Shafaque Shamim, Kavya Shree, Sukaran Malhotra, Tarun Rawat, Sukanya, Amrita and Indrajit Sarkar. 2025. Eco. Env. & Cons. 31 (4): (1553-1560). ISSN 0971-765X DOI No.: <http://doi.org/10.53550/EEC.2025.v31i04.034>. (26 Sept 2025).
 - *Gomphrena celosioides* Mart.: A review of traditional uses, phytochemistry and pharmacology. Ankita Rani, Jiten Singh, Sakir, Ashok Jangra, Meenam Bhatia, Pai S. Raghavendra, Dinesh Kumar. (8 Sept 2025). Pharmacological Research Natural Products 8 (2025) 100366. <https://doi.org/10.1016/j.prenap.2025.100366>
 - Mycorrhizal association and its relation with pteridophytes. Pratibha Kumari, Meenam Bhatia, Priti Giri and PL Uniyal. (11 July 2024). Front. Microbiol. 15:1406891. doi: 10.3389/fmicb.2024.1406891.
 - A Comprehensive Investigation of Soil Variation Along the Yamuna Expressway in Gautam Buddh Nagar: Impact of Urbanisation on Soil Health. Niketa Bhati, Harshita Jain, Renu Dhupper, Meenam Bhatia. (2 January 2026). In: Reddy, K.R., Nagabhatla, N., Singh, S.K., Soundharajan, B., Kumari, M., Jain, S.K. (eds) Recent Advances in Geomatics, Water Resources and Environmental Engineering. TRACE. 2024. Lecture Notes in Civil Engineering, vol 727. Springer, Singapore. https://doi.org/10.1007/978-981-95-0736-8_18.
 - In vitro spore germination and development of Sporophyte of *Thelypteris dentata* (Forssk.) E. St. John. Meenam Bhatia and Prem L. Uniyal. (22 July 2023). Indian Fern J. 40(2): 93-103. ISSN 0970-2741.
 - Ethnobotanical uses of plants of Mandakini valley in Rudraprayag, Uttarakhand. Pradeep Kumar Bhandari, Meenam Bhatia, and Uniyal PL. 2022. Int. J. of Life Sciences, 2022; 10(3):273-281, ISSN:2320-7817.
 - *Beta vulgaris* mediated bio-inspired copper Nanoparticle and its application as an Antibacterial agent. Darshan Singh, Deepti Rawat, and Meenam Bhatia. 2022. Rasayan J. Chem. Vol. 15, No. 4, 2287-2291. October – December 2022 ISSN: 0974-1496.
 - In Vitro spore germination, Gametophyte ontogeny and Sporophyte regeneration in *Platyserium bifurcatum* (Cav.) C. Chr. Meenam Bhatia, Brijesh Kumar and P. L. Uniyal. 2018. Indian Fern Journal. 35: 5. ISSN 0970-2741.
 - Studies on the Gametophyte Development and Reproductive Behaviour of *Achrostichum aureum* L. Meenam Bhatia, Priti, P.L. Uniyal and P.V. Madhusoodanan. 2017. The International Journal of Plant Reproductive Biology. 9(2): 89-92. DOI 10.14787/ijprb.2017.9.2.89-92

Books & Book Chapters:

- Toward a Transparent Circular Economy System with Blockchain and Nanotechnology. Niketa Bhati, Harshita Jain, Renu Dhupper, Meenam Bhatia. April 2026. In book: Circular Nanotechnology, Publisher: Springer Nature Switzerland, Cham, Editors: Harshita Jain, Ashish Mathur. DOI: 10.1007/978-3-032-12685-6_12
- Bryophyte Diversity in the Irano-Anatolian Region. Prem L. Uniyal, Himani Yadav, Priti Giri, Anshul Dhyani, and Meenam Bhatia. In Biodiversity Hotspot of the Irano-Anatolian Region. Editor: T. Pullaiah. Pub Date: June, 2026. ISBN: 978-177964-575-3. E-Book ISBN: 978-1-77964-576-0. Pp 83-130.
- In Vitro Gametophyte Development, Reproductive Biology, and Nitric Oxide Signalling in Ferns. In **Ferns: Biotechnology, Propagation, Medicinal Uses, and Environmental Regulation**. July 2022. Springer Nature Singapore Pvt. Ltd. ISBN 978-981-16-6169-3. Pp 261-283.
- *Vitex negundo*: A Treasure trove of medicinal and ethnobotanical significance. Nandini Prajapati and Meenam Bhatia. 2026. In: Lianas, Botanical Magazine, Department of Botany, Daulat Ram College, University of Delhi, Delhi. pp.117-124. ISBN 978-93-92603-82-2.
- Bio composting and Manuring: Towards sustainable agriculture. Meenam Bhatia, Pratibha Kumari and

- Aradhna Yadav. 2024. In: Lianas. Botanical Magazine, Department of Botany, Daulat Ram College, University of Delhi, Delhi. pp. 22-28. (April 2024), ISBN 978-93-92603-05-1
- Exploring the morphogenetic diversity in fern gametophytes and their potential in Plant Science research. Meenam Bhatia, Pratibha Kumari and Aradhna Yadav. 2023. In: Lianas ISBN 978-93-92603-05-1 Botanical Magazine, Department of Botany, Daulat Ram College, University of Delhi, Delhi. pp. 32-38. (April 2023)
 - Ethnobotanical studies and traditional knowledge of plants. 2023. Aradhana Yadav, Pratibha Kumari and Meenam Bhatia. In: Lianas ISBN 978-93-92603-05-1 Botanical Magazine, Department of Botany, Daulat Ram College, University of Delhi, Delhi. pp. 59-63. (April 2023)
 - Bryophytes-Why they are important. 2023. Pratibha Kumari, Aradhana Yadav and Meenam Bhatia. In: Lianas ISBN 978-93-92603-05-1 Botanical Magazine, Department of Botany, Daulat Ram College, University of Delhi, Delhi. pp. 64-69. (April 2023)
 - Book “Introduction to Basic Laboratory Techniques” by Meenam Bhatia and Ritu Garg. 2009. Shree Kala Prakashan, Delhi. ISBN 81-86038-17-5.
 - **E-content** on “Plant anatomy” for Restructured B.Sc. (Prog.) under the e-content generation project **National Mission on Education through ICT of Institute for Lifelong Learning, DU.**

Conference Organisation / Presentation /Session chaired

- **Session Chair** in the International Symposium on Environmental Biotechnology and Water Sustainability (ISEBWS-2026) in hybrid mode on 11th January 2026 at Daulatram College, DU, Delhi.
- **Panellist** at the Sustainability Conclave on “Youth innovation for a climate-resilient planet” organised by Amity Institute of Environmental Sciences, Amity University, Noida, Uttar Pradesh, in Collaboration with the Ministry of Earth Sciences on 20th March, 2025.
- **Co-chaired the morning session** on 27th November 2022 at the National Symposium on Advances in Pteridology Research: Present Status and Future Strategies organised by the Indian Fern Society and Man Sarovar University, Bhopal, at Bhopal, MP, from 26th -28th November 2022.
- **Presented paper**, In vitro development of *Allantodia aspera* (Blume) Ching (Athuriaceae) from spore germination to Sporophyte formation at the **National Symposium on Advances in Pteridology Research: present status and Future Strategies** the Indian Fern Society and Man Sarovar University, Bhopal at Bhopal, MP from 26th -28th November 2022.
- **Presented paper at National symposium** on “Pteridological studies in India: Perspectives and Modern approaches in relation to Environment and Climate change” organised by BSI, Regional Centre, Itanagar, Arunachal Pradesh on 22-23 February 2018.
- **Presented paper “Fern tissue culture: A step forward towards biodiversity conservation”** organized at the **International Conference on “Green Chemistry in Environmental Sustainability and Chemical Education (ICGC-2016)** by the Chemistry Department of Daulatram College on 17-18 November 2016.
- **Poster presentation** on “The Dwindling marvel: *Gloriosa superba*” in the **international conference** on “Global perspective of medicinal plants: Traditional system of medicines to nanomedicines held on 20- 21st March 2025 at Ramjas College, University of Delhi.
- **Poster presentation** on “Bryophyte: a future of global health care” in the **international conference** on “Global perspective of medicinal plants: Traditional system of medicines to nanomedicines held on 20- 21st March 2025 at Ramjas College, University of Delhi.
- **Poster presentation** on “The rise of Cordyceps as future superfood” in the **National conference** on “Fungi for Bharat: Fungi for better health, agriculture, remediation and technology on 20th to 22nd November 2026, organised by DUBS, Department of Botany, University of Delhi.
- **Poster presentation** on “Morphological characteristics and arbuscular Mycorrhizal Association of *Vitex negundo* with pharmacological significance” in the **National conference** on “Shatavari and Human Health, Theme: Species specific national campaign on Shatavari on 9th to 10th February 2026 at Desh Bandhu College, University of Delhi.
- **Poster presentation** on “Bio-inspired copper nanoparticle and its application as antibacterial agent” in **Antradhvani**, February 2014, at the sports complex of Delhi University.

➤ **RESEARCH GUIDANCE:**

- **Co-Guide of Nikita Bhati** registered in July 2024 at Amity University, Noida, UP.
- **Guide of Nandini Prajapati** registered in October 2025 for UG Four-year Dissertation at Daulatram College, DU.
- **Co-Guide of Anshika Yadav** registered in October 2025 for UG Four-year Dissertation at Daulatram College, DU.
- **Co-Guide Priyanshi Sharma** registered in October 2025 for UG Four-year Dissertation at Daulatram College, DU.

Research Projects (Major Grants/Research Collaboration)

- The Navdhara scheme titled Physico-chemical analysis of Laboratory wastewater and its treatment using bacteria. 12 Sept 2023 (2023-24) as PI.
- Innovation project DR-203: “Bio-inspired copper nanoparticle and its application as antibacterial agent” in 2013 as Co-PI.
- Innovation project Dr-303: “Development of New Fluorescent Silica Nanoparticles for Rapid Detection of Clinical Pathogen” in 2015 as Co-PI.

Awards and Distinctions

Received the **SS Bir Medal from the Indian Fern Society** in recognition of my outstanding research work in the field of Pteridology at the National Symposium on Advances in Pteridology Research: Present Status and Future Strategies at Bhopal, MP on 27th November 2022.

Association with Professional Bodies

Life Member of the Indian Fern Society

Life Member of Delhi University Botanical Society

➤ **Resource person**

- **Resource person:** Delivered a lecture on Hydroponics: The Future of Farming at a 10-day workshop on Skill-based Course, 3rd to 12th November, 2025, held at DRC, DU.
- **Resource person:** Delivered a lecture on Urban Farming at a one-week SDP on Embracing Sustainability from 17th to 22nd February, 2025, held at DRC, DU.
- **Resource person:** Delivered a lecture on “Exploring Life Process: Photosynthesis and Respiration” in a webinar organised by the Human Resource Development Centre of Delhi Public School Society in India, for Biology educators of the Delhi Public Schools on 14th October 2024.
- **Resource person:** ICT Workshop under IQAC for Non-teaching from 27th to 28th January 2022.
- **Resource person:** Delivered a lecture on “Introduction of Plant Kingdom and Classification” in a one-week Skill Enhancement Workshop for Non-Teaching Staff held at DRC, DU, from 7th to 13th July 2021.
- **Resource person:** Delivered a lecture in a one-week SDP for students, Module- Diabetes Mellitus and its treatment by natural remedies in “Disease prevention with natural remedies and identification of active molecules” held at DRC, DU from 20th to 27th December 2021.
- **Resource person:** Delivered a lecture in the In-House Skill Development Programme on “An Insight into the Basic ICT Tools” held at DRC, DU from 24th to 25th November 2021.

Other Activities

➤ **Coordinator/Convener**

- **Coordinator** in the In-House Skill Development Program for Botany Honours, Enhancing Learning Through ICT Tools, organised by Daulat Ram College, University of Delhi on 11th and 12th August 2025.
- **Convener:** A 10-day workshop on Skill-based Course for Life Science students from 2nd to 12th November, 2025, held at DRC, DU.
- **Convener: in** Workshops, on “Capacity Building Workshops series 2 on Intellectual Property Rights and Biological Resources organised on 17th January 2023.
- **Coordinator** in the In-House Skill Development Program for Life Science students on Enhancing Learning Through ICT Tools, organised by Daulat Ram College, University of Delhi on 26th and 27th November 2022.
- **Convener: in** Workshops, on “Capacity Building Workshops series 1 on 'Mushroom Cultivation organised on 28th September 2022.
- **Coordinator** in the workshop for non-teaching staff on “Digital Learning Through ICT Tools”, organised by Daulat Ram College, University of Delhi, on 21st and 28th January 2022.
- **Coordinator** in the In-House Skill Development Program for Botany Hons students on Enhancing Learning Through ICT Tools, organised by Daulat Ram College, University of Delhi on 24th and 25th November 2021.
- **Convener:** Workshop on Learning Reproductive Biology with Fluorescence Microscopy” in 25th & 26th August 2021.
- **Convener: in** the National webinar on “Redefining gardening from hobby to enterprise: series 1: Topic 1: Sustainable Ecosystems in Farming: Aquaponics and Its Commercial Applications Topic 2: Organic Farming and Organic Waste Management, organised by the Garden Committee, Daulat Ram College, University of Delhi on 21st October, 2020.
- **Convener:** Webinar cum Workshop series on “Building Self Confidence- Preparing Yourself for Success” from 12th -14th September 2020.
- **Convener: in** the National webinar on “Redefining gardening from hobby to enterprise: series 2: Topic 1: Garden Types and its Benefits Topic 2: Gardening: A Wonderful Hobby and a Promising career option” organised by the Garden Committee, Daulat Ram College, University of Delhi on 11th November, 2020.
- **Convener: in** the National webinar on “Redefining gardening from hobby to enterprise: series 3: Topic -1: Edible Landscaping for Nutritional Security; Topic-2: Indoor Gardening Impact On Human Health” organised by the Garden Committee, Daulat Ram College, University of Delhi on 18h November, 2020.
- **Convener: in** the National webinar on “Redefining gardening from hobby to enterprise: series 4: Topic1 Mushroom Farming; Topic 2 Introduction to commercial Vertical Hydroponics farming” organised by the Garden Committee, Daulat Ram College, University of Delhi on 25h November, 2020.
- **Organise:** A career counselling session in collaboration with **Ensure IAS** on 19th January 2026 at Daulatram College, DU, Delhi.
- **Organise:** A career counselling session in collaboration with **Evolution Educare** on 29th January 2026 at Daulatram College, DU, Delhi.
- **Organise:** A workshop in collaboration with the garden committee on **Kokedama: An introduction to living art** on 28th January 2026 at Daulatram College, DU, Delhi.
- **Organise: International Symposium** on Environmental Biotechnology and Water Sustainability (ISEBWS-2026) in hybrid mode on 11th January 2026 at Daulatram College, DU, Delhi.
- **Organise:** A lecture on “The Indian Biological Data Centre: The step before the leap on 31st January 2023 by an eminent scientist, Prof. Saurabh Raghuvanshi, Biological Data Centre, Faridabad, Haryana.
- **Organise:** lectures on “Algae in the Changing World” and "New Insights to Climate Change Research: The Carbon Angle by Prof. Dinabandhu Sahoo on 20th January 2022.
- **Organise:** International Conference on Effective Strategies for Biodiversity Conservation, 23rd -24th March 2021.
- **Organise:** lectures on “Pollinators and Pollinator Dependent Plants and Conservation Values “on World Environment Conservation Day on 4th August 2021.
- **Organise:** lectures on “Montreal Protocols and SDGs” On World Ozone Day on 16th September 2021.
- **Organize:** a lecture on “Baboos” delivered by HOD-Dept. of Botany Prof. Usha Rao, 2008 at Botany Department, Daulat Ram College.

- Organised a lecture of Eminent Paleobotanist Professor David Dilcher of Indiana University on “What Science can tell us the future” on 6th Feb 2015 at Botany dept., DRC.
- **Organise:** 3-day webinar cum workshop series under the aegis of IQAC on “BUILDING SELF-CONFIDENCE- PREPARING YOURSELF FOR SUCCESS” from 12-14 September 2020.
- **Organise:** 2-day workshop for Students on “Technique in Plant Cell Tissue and Organ Culture” at Botany Department, Daulat Ram College under DBT Star College project sponsored by Department of Biotechnology, Government of India Botany dept., DRC from 26th March to 28th March 2014.
- **Organise:** 3-day workshop for Teachers on “Techniques in Cell Biology” at Botany Department, Daulat Ram College under DBT Star College project DRC, Delhi from 12th to 14th Oct 2012.
- **Organise:** 2-day workshop for Students on “PCR Application” at Botany Department, Daulat Ram College under DBT Star College project sponsored by Department of Biotechnology, Government of India, from 17th to 18th October 2012.
- **Organise:** 3-day workshop on Biology Laboratory course (code:BY106) B.Sc. Programme I year at Daulat Ram College from 2nd to 4th September 2008, organised by ILL, DU.
- Staff advisor of the Life Science Association Astitva (2022-23): organised many curricular and Extracurricular activities to showcase the talent of the students.
- Staff advisor of the Botanical Society Vasundhara (2021-22): organised many curricular and Extracurricular activities to showcase the talent of the students.
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➤ FDP/ REFRESHER COURSE

- Participated in a two-week online refresher course on “Embarking on NEP: Research Methodology for scientific excellence” organised by DRC, DU, in collaboration with Guru Angad Malviya Mission Teachers Training Centre, SGBT Khalsa College, DU from **24th June to 7th July 2025**.
- Participated in National Workshop on Urban Heat Island & Spreading Awareness on Embarking challenges of air Pollution and Climate Change on Human Health in Urban Ecosystem on **5th & 6th August 2024**, Organised by Environmental Pollution Laboratory, Department of Environmental Studies, DU, in Collaboration with Department of Botany, DU, Sponsored by DST, Govt. of India.
- Participated in Hands-on Training on Aeroponics, Hydroponics, Landscaping and Vertical Gardening in the Department of Botany in Zakir Hussain College, DU From **8th to 9th November 2024**.
- Participated in One-Week National Faculty Development on “Organic Farming and Biofertilizers” jointly organised by DU (Department of Botany and SEC Committee); Swami Shraddhanand College, DU; Shaheed Rajguru College of Applied Sciences for Women, DU; Chaudhary Charan Singh Hisar Agricultural University, Hisar and GAD-TLC, SGTB Khalsa College, DU, under (PMMMNMST) of the Ministry of Education. From **07th August to 13th August, 2023**.
- Participated in One week (Online) Interdisciplinary Faculty Development Programme on “Environment Sustainability & Climate Change” (**April 4th – 8th, 2022**) organised by Miranda House, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi.
- Participated in One week Faculty Development Programme (Online) on “Innovation in Scientific research Methods” held from **14th to 18th October 2020**, organised by Kirori Mal College, DU, under the aegis of DBT Star College Scheme 2019-2022.
- Participated in two weeks' Faculty Development Program on "ICT Based New Paradigms of E-Teaching and E-Learning : Digital Pedagogy" from **September 15- September 30, 2020**. Under the aegis of Ministry of Human Resource Development Department of Computer Science, Mata Sundri College for Women DU In Collaboration with Pandit Madan Mohan Malviya National Mission on Teachers and Teaching Teaching Learning Centre, Ramanujan College.
- Participated in Three Day E-Faculty Development Programme, organised by Department of Commerce, Daulat Ram College, University of Delhi from **21-23 July, 2020**.
- Participated in one Day workshop on **June 05, 2020**, organised by GURU NANAK DEV UNIVERSITY, AMRITSAR School of Education in collaboration with Turnitin “Plagiarism - An Opportunity to Learn, Teach & Grow” a workshop under the PANDIT MADAN MOHAN MALVIYA NATIONAL MISSION ON TEACHERS AND TEACHING, MHRD, GOVERNMENT OF INDIA.

- Participated in two weeks interdisciplinary ' Faculty Development Program on “Data Analysis using software packages” in Hindu College, DU, from **12th to 24th December 2018** organised by Department of Statistics & IQAC, Hindu College, University of Delhi, Delhi in collaboration with Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi under the scheme Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) Ministry of Human Resource Development & DRDO, Delhi and ERNET (MeitY), Government of India, Delhi
- Participated in Two Week (Ten Days) Faculty Development Programme entitled "e-Learning, Pedagogy and ICT Tools in Higher Education" organised by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi from **26th November - 7th December 2018**.
- Participated in FDP on “Industrial and Environmental Microbiology” organized by Dept. of Botany, Daulatram College from **19th to 20th March 2018**.
- Participated in FDP on “From Chemistry of Life to Chemistry” Organised by Department of Chemistry, Daulatram College from **15th June to 22nd June 2017**.
- Participated in Three- weeks Refresher course organised by CPDHE, DU, Delhi from **9th to 30th December 2014**.
- Participated in the Orientation course organised by CPDHE, DU, from 25th June to **21st July 2012 at Delhi**.
- Participated in Two-week Training course on Basic Computer concepts (MARCH), MS-Word, MS-PowerPoint, Internet and Email from 5th to 13th March 2007 by DUCC, DU.
- Participated in Two- week Training course on MS-Excel from 9th to 30th March 2007 by DUCC, DU.
- Participated in Two- week Training course on MS-access from 2nd to 13th April 2007 by DUCC, DU.

➤ Workshops

- Participated in the conclave on Ideas on Education organised by Zee TV on 28th April 2025.
- Participated in Workshop on “Development of online Quizzes in Life sciences by ILL, DU on 13th April 2009.
- Participated in a two-day workshop on “Microscopy Techniques and Applications”-A Workshop for Teachers, organised by Miranda House DU, from 27th to 28th September 2011.
- Participated in a 3-day Workshop on “Molecular Biology Techniques” organised by the Dept of Biochemistry, DRC from 30th to 2nd September 2011.
- Participated in a 3-day Workshop on “Techniques in Genetics and Genomics” organised by the Dept of Zoology, DRC from 8th to 11th February 2012.
- Participated in a 3-day Workshop on “Recent trends in Green Chemistry organised by the Dept of Chemistry, DRC from 11th to 13th January 2012.
- Participated in a 2-day workshop on Medicinal Botany and Drug Discovery organised by the Botany Department, Ramjas College, DU, sponsored by DBT, 30th to 31st January, 2017.

➤ Webinars

- Participated in the webinar “Tinkering with Plant Genomes” organised on 06 July 2020 by the Department of Botany, Miranda House, University of Delhi.
- Participated in the webinar on the “Theme: Celebrating Biodiversity” organised by Daulat Ram College, University of Delhi, held on June 4, 2020.
- Participated in the National Webinar on Biodiversity and Conservation (NWBC 2020) organised by the Department of Botany, Daulat Ram College, University of Delhi, on 8th June, 2020.
- Participated in the National Webinar on Biodiversity and Conservation (NWBC 2020) organised by the Department of Botany, Daulat Ram College, University of Delhi, on 8th June, 2020.
- Participated in a National webinar on “Entrepreneurship Aspects on Biodiversity Conservation and Indigenous Healing Practices of Northeast India" organised by IBSD Centre, Kalindi College, on June 2, 2020.
- Participated in the webinar on "PLANT BIOLOGY: A JOURNEY FROM EARTH TO SPACE" organised by the Department of Botany, Ramjas College, University of Delhi, on 22nd - 23rd May, 2020.
- Participated in the webinar on the topic “Covid-19 and Environment: Present benefits, Future challenges and Way Forward” organised by the Internal Quality Assurance Cell (IQAC) and Department of

Environmental Studies, Swami Shraddhanand College, University of Delhi on May 25, 2020.

- Participated in the National Webinar on Colours in Nature organised by the Department of Botany, Kirori Mal College, University of Delhi, under the DBT Star College scheme 20019-22 on 22nd August, 2020.
- Participated in the webinar on “SLEEP DISORDERED BREATHING” organised by CHEMPHORIA, Chemical Society, Daulat Ram College on October 14, 2020.
- Participated in DST-SERB-supported National conference on “Climate change: Impact, Adaptation, Mitigating Scenario and Future Challenges in Indian Perspective” organised by DDUC, Delhi University on 2nd March - 3rd March, 2015.
- Participated in the Workshop on “Author Workshop “conducted by Elsevier in association with Delhi University, on 22nd September 2014 at University of Delhi.
- Participated in the Science Academies’ Lecture workshop on “Brainwave: Inspiring Young Mind” conducted by Indian National Science Academy, New Delhi, The National Academy of Science and India, Allahabad, and Indian Academy of Science, Bangalore and SGTB Khalsa College 17th to 18th March 2011 at SGTB Khalsa College.
- Participated in the “Biotikos’11: Workshop on 'Impact of Biotechnology on Men and Environment’” organized by the Biotechnology Society, TERI University, on 10th March 2011.

➤ Curriculum revision

- **Course Coordinator:** 2019. Course Revision for B.Sc. (Program) with Life Science Core Course Botany-III Plant Anatomy and Embryology at the Department of Botany, Delhi University in 2019.
- Developed e-content in 2013-14 on “Plant anatomy” for the Restructured B.Sc. (Programme) under the e-content generation project, National Mission on Education through ICT of the Institute for Lifelong Learning, DU.
- Worked for ILLL for the preparation of question banks for B. Sc (H) Botany in the year 2009.

➤ Educational excursions

- Educational excursion to Kartayva path to participate in painting the longest canvas on the theme “Viksit Bharat Ke Rang-kala Ke Sang, organised by the Ministry of Culture in association with NDNMC and the University of Delhi on 19th September 2025.
- Organised a Curriculum-based academic field trip for students to FRI Dehradun, Mussoorie and Tehri, Uttarakhand, from 1st October to 4th October 2024.
- Organised a Curriculum-based academic field trip for students to Khajihar and Dalhousie, Uttarakhand, from 26th to 30th September 2023.
- Organised an Institute and laboratory field trip for students to the Indian Agricultural Research Institute (IARI) (5th April 2023) to give them exposure to current research in plant sciences at different institutes, available facilities, Laboratory Techniques, Instruments, etc.
- Organised different educational visits to the Biological Data Centre, and the Regional Centre for Biotechnology (RCB) (on 23rd March 2023) for students to give them exposure to current research in plant sciences in different institutes, Laboratory Techniques, Instruments, etc.
- Organised a syllabus-based local trip to TERI Gram, Gual Pahri and Plant Molecular Biology and Genetics, South campus, DU in 2013-14.
- Organised a syllabus-based field trip to Aravali Biodiversity Park for the study of Flora of Delhi, and IIT Delhi for the study of many new techniques used in the analysis of air pollution. 2014-15.
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➤ Co-Curricular activities:

- Jury member in Intercollege debate competition “Salad Dessing” in ‘Orchidz 26’, the annual festival, organised by ‘Vasundhara’, the Botanical Society, DRC, on 10th April 2026.
- Jury member in Intercollege debate competition “Turncoat debate” on the theme Marine conservation at ‘Plexus 26’, the annual festival, organised by ‘Koshika’, the Zoological Society, DRC, on 9th April 2026.
- Jury member in Intercollege “Reel making competition” at ‘Healthomania’, organised by the Nutrition and Health Education department, DRC on 9th September 2025.

- Jury member in Intercollege talent hunt activity “Kalakrati” at ‘Metamorphosis’, the annual festival of the Political Science department, organised by ‘Republica’, the Political Science Society, DRC on 15th April 2025.
- Jury member in Intercollege Best out of Waste activity organised by Vasundhara, the Botanical Society, DRC, April 2024.
- Jury member in Intercollege microscopic view sketch-making activity organised by Vasundhara, the Botanical Society, DRC, April 2024.
- Jury member in Intercollege Paper presentation activity at Chemophoria 2023, the annual festival of the Chemical Society, DRC.
- Jury member in Intercollege Salad dressing activity at ‘Orchidz 2023’, the annual fest of the ‘Vasundhara’ Botanical Society, DRC.
- Jury member in Intercollege Quiz in ‘Orchidz 2023’, the annual festival of ‘Vasundhara’, the Botanical Society, DRC.
- Jury member in Intercollege Quiz in ‘Orchidz 2022’, , the annual festival of ‘Vasundhara’, the Botanical Society, DRC.
- Jury member in Intercollege Rangoli competition in ‘Orchidz 22’, the annual festival of ‘Vasundhara’, the Botanical Society, DRC.
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