



Faculty Details Proforma



Title	Dr.	First Name	Asmita	Last Name	Gupta	Photograph
Designation	Assistant Professor					
Address	Daulat Ram College, Patel Marg 4					
Phone No. Office						
Residence						
Mobile No.						
Email- ID						
Web Page						
Educational Qualification						
Degree	Institution				Year	
B.Sc.(Hons.) Botany	Faculty of Science, Banaras Hindu University, Varanasi				2009	
M.Sc. Botany	Faculty of Science, Banaras Hindu University, Varanasi				2011	
Ph.D.	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi				2017	
Career Profile						
<ul style="list-style-type: none">❖ Worked in Zakir Husain Delhi College, University of Delhi, from 04-08-2016 to 16-12-2016 as Assistant Professor (Ad-hoc), Botany.❖ Worked in Gargi College, University of Delhi, from 17-01-2017 to 08/05/2017 as Assistant Professor (Ad-hoc), Botany.❖ Worked in Acharya Narendra Dev College, University of Delhi, as Assistant Professor (Ad-hoc), Botany, from 20/07/2017 to 19/05/2018.❖ Worked in Acharya Narendra Dev College and Miranda House, University of Delhi, New Delhi, as a Guest Lecturer in Botany and Environmental Studies, respectively, from July 2018 to August 2018.❖ Worked in Daulat Ram College, University of Delhi, as Assistant Professor (Ad-hoc), Botany, from 17/08/2018 to 19/01/2023.❖ Currently, working as Assistant Professor (permanent) in the Department of Botany, Daulat Ram College, University of Delhi.						
Administrative Assignments						
Sports Board Team Manager, 2018-19, Sports Board member, 2019-20, 2020-21, Garden Committee member 2018 onwards, NSS member 2023 onwards. Staff Advisor of Vasundhara, The Botanical Association in the academic year 2023-24. Timetable Committee member of Botany Department in the academic year 2024-25.						
Areas of Interest/Specialization						
Wastewater remediation and valorization, Biohydrogen, Environmental Microbial Biotechnology, Analytical Techniques in Plant Sciences, Plant Biodiversity, Environmental Studies, Plant Ecology						

Subjects Taught (in the last three years)

Genetics and Plant Breeding, Analytical Techniques in Plant Sciences, Biofertilizer, Basic Laboratory and Field Skills, Organic Farming, Viewing and Capturing Diversity in Nature, Plant Diversity and Systematics, Green Belt Development in Smart Cities, Natural Resource Management, Industrial Environmental Microbiology, Environmental Science

Research Guidance

Publications Profile (in the last three years)

- ❖ Sharma, P., Mahongnao, S., **Gupta, A.** and Nanda, S., (2024). Health risk assessment for potentially toxic elements accumulation in Amaranthaceae family cultivars and their correlation with antioxidants and antinutrients. *Archives of Environmental Contamination and Toxicology*, 87(2), pp.187-207. Published: 09 August, 2024. Journal Impact Factor: 3.7 (2023). **Electronic ISSN:** 1432-0703. Print ISSN: 0090-4341. SCI and Scopus Indexed. Reference number of UGC - CARE List: 8362
- ❖ **Gupta, A.**, Kumar, M., Kumar, V. and Thakur, I.S., (2024). Analysis of fatty acid methyl esters and polyhydroxyalkanoates production along with wastewater contaminant removal using sewage sludge bacteria. *Syst Microbiol and Biomanuf* (Systems Microbiology and Biomanufacturing), Publisher: Springer Nature. Volume 4, page 1051-1061. **Electronic ISSN:** 2662-7663. Print ISSN 2662-7655. Cite Score 2024: 4.7 (given by Journal Citation Reports®) Date of Publishing: 18 March 2024. SCI and Scopus Indexed, Emerging Sources Citation Index, Web of Science Indexed. **DOI:** 10.1007/s43393-024-00252-0. Scopus Index link: <https://www.scopus.com/sourceid/21101101858>
- ❖ **Gupta, A.**, Kumar, M., Sharma, R., Tripathi, R., Kumar, V. and Thakur, I.S., (2023). Screening and characterization of bioflocculant isolated from thermotolerant *Bacillus* sp. ISTVK1 and its application in wastewater treatment. *Environmental Technology & Innovation*, 30, p.103135. Publisher: Elsevier. ISSN 2352-1864. Cite Score 2024: 14, Impact Factor 2024: 6.7 (given by Journal Citation Reports®) Date of Publishing: 5 April 2023. SCI and Scopus Indexed and UGC CARE Listed. Scopus Index link: <https://www.scopus.com/sourceid/2110038596>. Reference number of UGC - CARE List: 19850.
- ❖ **Gupta, A.**, Kumar, M., Ghosh, P. and Thakur, I.S., 17 January, (2022). Risk assessment of a municipal extended aeration activated sludge treatment plant using physico-chemical and *in vitro* bioassay analyses. *Environmental Technology & Innovation*, Vol. 26, p.102254. Publisher: Elsevier. ISSN 2352-1864. Cite Score 2024: 14.0, Impact Factor 2024: 6.7 (given by Journal Citation Reports®) Date of Publishing: 17 January 2022. SCI and Scopus Indexed and UGC CARE Listed. Citations: 4. Link to the article: <https://www.sciencedirect.com/science/article/pii/S2352186421008166>. Reference number of UGC - CARE List: 19850.
- ❖ **Gupta A.**, Kumar M, Kumar V, Thakur I.S. (2022) Hydrogen production and carbon sequestration for biofuels and biomaterials. BIOMASS, BIOFUELS, BIOCHEMICALS Climate change mitigation: Sequestration of green house gases. Elsevier. ISBN: 978-0-12-823500-3. Editor: I.S.Thakur, Ashok Pandey, Huu Hao Ngo, Carlos Ricardo Soccol, Christian Larroche. Available online 14 January 2022, Version of Record **14 January 2022**. Chapter 10, 231-252. Link: <https://www.sciencedirect.com/science/article/abs/pii/B9780128235003000169>
- ❖ **Gupta A.** An Eco-conscious Lifestyle. Lianas. (2023). Department of Botany, Daulat Ram College, FA Digital Productions, New Delhi, India. ISBN: 978-93-92603-05-1.
- ❖ Dr. Rama Pasricha, Dr. Rekha Kathal, **Asmita Gupta (2024)**. Invasive alien species in India and their impact. In Edited Book. Lianas 2023-2024. Biodiversity conservation and climate change. FA Digital Productions, New Delhi, India. Chapter 1. Page no. 9-22. ISBN: 978-93-92603-46-4.

❖ **Gupta A, Swati, Kumar M, Pasricha R. (2024)** Recent Advancements In The toxicological Assessment And bacterial - Mediated Biodegradation Pathways Of Paracetamol. In Book *Futuristic Trends in Biotechnology*, Volume 3 Book 11, Part 6, Chapter 3, pp 164-178. e-ISBN: 978-93-6252-067-8, Print ISBN: 978-93-6252-983-1, Published Online: 25/02/2024, Published in Print: 30/04/2024. IIP Series, Iterative International Publishers, Karnataka, India.

❖ **Asmita Gupta and Shagun Danda (2024). Edited Book.** Lianas 2023-2024. Biodiversity conservation and climate change. FA Digital Productions, New Delhi, India. ISBN: 978-93-92603-46-4.

Conference Organization/Presentation (in the last three years)

- ❖ Presented a paper titled, “**Assessment of the fate of contaminants in municipal sewage and sludge during the activated sludge treatment process of wastewater treatment plants**” in it as invited oral presentation.” As an invited oral presenter in the **International Conference On Innovations In Biotechnology For Sustainability (IBS-2024)**, jointly organized by Jawaharlal Nehru University, New Delhi and the Biotech Research Society, India at New Delhi, India during November 23-25, **2024**.
- ❖ Participated as a Delegate and presented a paper titled, “*Exploring the routes of achieving circular economy in a wastewater treatment process*” at the 5th World Environment Summit **2024**, organized by the Environment and Social Development Association (ESDA India) in association with Dr. B.R. Ambedkar College, DU, Hansraj College, DU, Amity University, RCCVG College, Ghaziabad, ICMR, New Delhi, GDGU, Gurugram, Villa College, Maldives, Tribhuvan University, Nepal and ZS Bangladesh, from 16th to 18th November, **2024** in Hybrid mode, at NDMC Convention Centre, New Delhi, India and Hansraj College, University of Delhi, India.
- ❖ Organized the annual Co-curricular event Orchidz 2024 of Vasundhara, The Botanical Association of Daulat Ram College, for the academic session 2023-2024, in which, an invited talk was successfully delivered by Padma Shri. Prof. Sudhir Kumar Sopory, Emeritus Senior Scientist, ICGEB, New Delhi and Former Vice-Chancellor, Jawaharlal Nehru University, New Delhi, on 24th April, **2024**, in Daulat Ram College, University of Delhi, New Delhi. The title of the talk was, “Plant Communication and Adaptation”.
- ❖ Organized Nature Photography workshop Series-II as staff advisor of Vasundhara, The Botanical Association of Daulat Ram College, in association with Sepia and Magic Lantern, The Film and Photography Society, Daulat Ram College, on 18th to 19th April, **2024**, in Daulat Ram College, University of Delhi, New Delhi, India.
- ❖ Organized Nature Photography workshop Series-I as staff advisor of Vasundhara, The Botanical Association of Daulat Ram College, in association with Sepia and Magic Lantern, The Film and Photography Society, Daulat Ram College, on 30th to 31st October, **2023**, in Daulat Ram College, University of Delhi, New Delhi, India.
- ❖ Organized the inaugural ceremony of Vasundhara, The Botanical Association of Daulat Ram College, for the academic session 2023-2024, in which the inaugural talk was successfully delivered by Dr. Manoj Kumar Sharma, Assistant Professor, Department of Biotechnology, Jawaharlal Nehru University, New Delhi, on 12th October, **2023**, in Daulat Ram College, University of Delhi, New Delhi. The title of the talk was, “Green Bioreactors for Biologicals: Strategies and Way Forward”.
- ❖ Presented a paper titled, “**Analysis of FAME and PHA production along with wastewater contaminant removal using sewage sludge bacteria**”, in the New Horizons in Biotechnology (NHBT-2023) organized by CSIR-NIIST, Trivandrum, India and BRSI held from 26th to 29th November, **2023**.
- ❖ Presented a paper titled, “*Prevalence of Pharmaceuticals in Wastewaters post-COVID-19*” at the World Environment Summit 2023, organized by ESDA from 4th to 6th November, **2023**, at Galgotias University, Greater Noida, Uttar Pradesh, India.

- ❖ Presented a paper titled, ” **Screening and characterization of bioflocculant isolated from thermotolerant *Bacillus* sp. ISTVK1 and its application in wastewater treatment**”, in the International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy (BSBB-2022) organized by Indian Institute of Technology, Guwahati, India and BRSI held from 8th to 11th December, **2022**.
- ❖ Presented a paper titled, ” **Exploring the valorization routes of sewage and sludge for a circular bioeconomy**” at the World Environment Summit 2022, organized by ESDA from 15th to 16th October, **2022**, at the V.P. Chest Institute, University of Delhi, North Campus, Delhi.
- ❖ Presented and secured 3rd position in Oral Presentation in the **WORLD ENVIRONMENT SUMMIT 2021** (Conference/Awards) as Delegate and presented a Paper (Oral) entitled “**Recent developments in Phytoremediation-inclusive advanced wastewater treatment technologies**” during technical session ten. ESDAC. 1-3 October, 2021. Held in Physical and Virtual mode. Venue: India International Centre, Lodhi Road, New Delhi. Organized by: Environment and Social Development Association (ESDAC) Delhi.
- ❖ Participated and presented e-paper for the paper entitled “**Risk assessment of a municipal extended aeration activated sludge treatment plant using physico-chemical and in vitro bioassay analyses**” authored by Asmita Gupta^{1*}, Madan Kumar², Pooja Ghosh², Swati³, Indu Shekhar Thakur^{3*} in the International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (**BSAEH-2021**), the International Conference on Biotechnology for Sustainable Agriculture, Environment and Health, jointly organized by Malaviya National Institute Of Technology, Jaipur And The Biotech Research Society, India at Jaipur, India during April 04-08, **2021**.
- ❖ Presented a paper online (Ref no. EN61) titled, “**Exploring the circular economy routes of wastewater treatment technologies: A brief review**”, in 5th International Conference on Bioenergy, Environment and Sustainable Technologies (**BEST 2021**), organized by Arunai Engineering College, Tiruvannamalai, Tamil Nadu, India, from 29-01-2021 to 30-01-2021.

Research Projects (Major Grants/Research Collaboration)

- ❖ Project Proposal granted under Navdhara Scheme 2022-23. PI: Dr. Meenam Bhatia, Co-PI: Dr. Asmita Gupta and Dr. Preeti Chadha, Daulat Ram College, University of Delhi. Ongoing.
- ❖ Two Project Proposals submitted in DST-SERB 2024. PI: Dr. Asmita Gupta. Both under evaluation.

Awards and Distinctions

- ❖ **Received the Best Poster Award (EEF-235)** in the Energy and Environment category “International Conference on Emerging Trends in Biotechnology” ICETB 2014 & XI Convention of The Biotech Research Society, India held in New Delhi, November 6-9, 2014.
- ❖ **Received III position** in the technical session 10 of Oral Paper Presentation entitled, “**Recent developments in Phytoremediation-inclusive advanced** wastewater treatment technologies” during World Environment Summit 2021 held on 1-3 October, 2021 by Environment and Social Development Association (ESDA) Delhi.
- ❖ Received the prestigious award “**ESDA Young Scientist Award 2022**” on the basis of your remarkable contribution in the field of Waste treatment and valorization, Bioremediation, Detoxification and ESDA Society objectives, on 16th October, 2022 at Patel Chest Institute, New Delhi.
- ❖ **Received the Best Paper Award** for a paper titled, ” **Prevalence of Pharmaceuticals in Wastewaters post-COVID-19**” at the World Environment Summit 2023, organized by ESDA from 4th to 6th November, 2023, at Galgotias University, Greater Noida, Uttar Pradesh, India.

Association with Professional Bodies

- ❖ **Life time member** of the Biotech Research Society of India (BRSI) since 2014 (LM1541).
- ❖ **Life time member** of the Environment and Social Development Association (ESDA) since 2021 (L-521).

Other Activities (in last three years)

- Co-Organized Field Trip of III Year students of DSE-Natural Resource Management to Yamuna Biodiversity Park, New Delhi, in 2024.
- Organized Field trip to IARI, Pusa, New Delhi, for an academic visit of Botany (Hons.) II Year students on 5th April, 2023.
- Co-Organized Field Trip of Botany (Hons.) III Year students of Industrial Environmental Microbiology to Yakult Factory, New Delhi, in 2019