




Shivaji College Faculty Details Proforma

Title	First Name	Last Name	Photograph
Dr.	Smita	Tripathi	
Designation	ASSISTANT PROFESSOR		
Address	Department of Botany, Shivaji College, Ring Road, Raja Garden, New Delhi-110027, India		
Office Phone No.	011-25116644, 011-25155551		
Residence	-		
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Educational Qualifications	M.Sc., Ph.D.		
Degree	University/Institute	Year	
Ph.D.	Agricultural & Food Engineering Department, Indian Institute of Technology, Kharagpur, West Bengal, India	2009	
M.Phil./M.Tech.	-		
PG	M.Sc. (Botany), Hindu College, University of Delhi, India	2003	
UG	B.Sc. (Hons.) Botany, Shivaji College, University of Delhi, India	2001	
Any Other Qualification	-		
Career Profile			

After completing M.Sc. in Botany from University of Delhi worked as Contract Researcher at Agricultural & Food Engineering Department, Indian Institute of Technology-Kharagpur. Thereafter, worked as Women Scientist for two years in the same Institution and was involved in mycotoxin research. Completed my Ph.D on enzymatic detoxification of aflatoxins in 2009. Also worked as Assistant Professor for brief period at Amity University, Noida. Joined Laboratory of Plant Physiology & Biochemistry, Department of Botany, University of Delhi as Young Scientist. Here, I was involved in detection & characterization of newly discovered phytohormone “Strigolactones” and understanding it’s crosstalk with other plant hormones in controlling physiological responses. Working as Assistant Professor in Botany at Shivaji College on regular basis since 2014.

Administrative Assignments

- Teacher Incharge, Department of Botany (2018-19)
- Admission Incharge, Department of Life Sciences (2017-18)
- Member, Internal Assessment Committee since April 2019
- Member, Women Development Cell since April 2019
- Member, Committee against Sexual Harassment, Shivaji College (2015-16)
- Member, Women Development Cell (2014-16)
- Member, Eco Club (2014-16)
- Member, Placement Cell (2016-18)
- Member, Garden Committee (2016-18)

Also involved in screening of various non teaching positions (2014) & teaching positions (Assistant Professor-preliminary screening, 2017).

Areas of Interest/Specialisation

- Plant Physiology & Biochemistry (Plant Signalling & Behavior, Phytohormones & Associated Physiological Responses)
- Food Quality Control

Subjects Taught

- Introduction to Biology
- Biology II
- Genetics & Genomics
- Ecology
- Developmental Biology & Plant Physiology
- Plant Anatomy & Embryology
- Biodiversity
- Archegoniate
- Mycology & Phytopathology
- Microbiology & Phycology
- Anatomy of Angiosperms
- Industrial & Environmental Microbiology
- Biofertilizers (Practicals)
- Biostatistics (Practicals)
- Bioinformatics (Practicals)

Innovation Project/Research Projects (Major Grants/Research Collaboration)

Major Grants

1. Project grant from Department of Science & Technology, Govt. of India, India under Women Scientist Scheme for 2years.
Place of Work: Agricultural & Food Engineering Department, IIT-Kharagpur
2. Project grant from Science & Engineering Research Board, Govt. of India, India under Fast track Scheme for Young Scientist for 3years.
Place of Work: Laboratory of Plant Physiology & Biochemistry, Department of Botany, University of Delhi
3. **Innovation Project**
'A comparative chemical analysis of commercially available edible oils for their efficacy for human consumption, using defined parameters' (SHC-310) sanctioned by University of Delhi, during year 2015-2016, as Principal Investigator (PI).

Publications Profile (Research Papers/Books)

Book Chapters

Indian : 6

Research Papers

International: 7

Newspaper Article: 1

National Journals/Popular Articles/Review: 7

Conference/Seminar/Faculty Development Programme/Workshop

International

Participated/Presented: 7

National

Participated/Presented: 19

UGC-HRDC Courses

- Attended **Refresher course** in Life Sciences from 9th-30th December, 2014 organized by CPDHE, UGC-ASC, University of Delhi.
- Attended **Orientation Course** organised by UGC-HRDC, RTM Nagpur University and TLCHS, MGAHV, Wardha from 14th May-10th June 2018.
- **Attended One-week Workshop** on Research Methodology conducted by UGC-HRDC, Jamia Millia Islamia University, New Delhi from February 4th-9th, 2019.

Faculty Development Courses

Attended Following FDPs:

- **Biostatistics**-Theoretical and Practical aspects. DDU College under DBT Star College Scheme. 14 - 18th March, 2018. (5Days)
- **Industrial & Environmental Microbiology**. Daulat Ram College under DBT Star College Scheme. 19-20th March, 2018.

- Two weeks appreciation course for college Teachers and Lecturers on “**Food safety and Quality**” organized by Quality Council of India and School of Agriculture, Indira Gandhi National Open University (IGNOU), New Delhi at IGNOU (14th – 25th, June, 2010).
- **Research Methodology** (Science & Technology Based) at Amity University, Noida (11-12th May, 2010).

Workshops

- Workshop on “An Exposition of Perishable Products of North East and its Challenges” conducted by IBSD-Kalindi College Centre on March 6th, 2019.
- Workshop on “Introductory Evolutionary Biology and Phylogenetics” conducted by Department of Botany, University of Delhi January 4th-5th, 2019.
- Workshop cum Awareness Program on Remote Sensing and GIS Technology’ organized by Institute of Photogrammetry and Geo Informatics (IPGI), Dwarka, New Delhi on January 12, 2019.
- Workshop on “Covariance based Structural equation modeling and partial least squares” conducted by Department of Applied Psychology, Ramanujan College, University of Delhi, Delhi from December 17 & 18, 2018.
- “Beginners hands-on Bonsai Workshop organized by Garden Committee, Shivaji College, University of Delhi on November 02, 2018.
- Workshop on Biofertilizers organised by Zakir Hussain College (University of Delhi) from 14-16, July 2016
- Workshop on Ethnobotany organised by Institute of Lifelong Learning and Hansraj College (University of Delhi) from 16-17th Sep, 2016
- Workshop on Solid Waste Management: Reinvention, Opportunities and Way Ahead (Not in my Backyard) organised by Centre for Science and Environment, New Delhi (July 12th, 2016)

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

NIL

Awards and Distinctions

SALIENT SCHOLASTIC ACHIEVEMENTS

- ❖ **Best Poster Presentation** in the subtheme “Conservation of Medicinal Plants in India & Trapping their Potential for the Society” at *National Seminar on “A Paradigm shift towards empowerment of Women: A Scientific View”* organised by Kalindi College on 3-4th Feb, **2017**
- ❖ Innovation Project title “ A Comparative chemical analysis of commercially available newer brands of edible oils for their highlighted benefits for human consumption” by PIs Dr. Misha Yadav, Dr. Smita Tripathi & Dr. Deepika Yadav was selected for research display at the convocation ceremony and was awarded with certificate of **Most significant Societal Impact** on 19th November, **2016**
- ❖ **Best Article** award by Delhi University Botanical Society **2012**

- ❖ **Young Scientist Fellowship** under Fast-track Scheme, Science & Engineering Research Board, Govt. of India (2012)
- ❖ **Women Scientist Fellowship** by Department of Science & Technology, Govt. of India (2006)
- ❖ Qualified GATE in Life Sciences (2005)
- ❖ **Certificate of merit** for standing first class first in university undergraduate examinations in Shivaji College (1999-2001)
- ❖ Selected for **Summer Research Fellowship** Programme at JawaharLal Nehru Centre for Advanced Scientific Research, Jakkur , Bangalore (2000)
- ❖ **Silver Medal** in National Talent Search Contest in Sciences, Govt. Of India (1991)
- ❖ Qualified **39th Annual General Knowledge Test** organised by USO, India, A VEC for the United Nations

Memberships

Delhi University Botanical Society

Other Academic Activities

- ❖ Invited as a Resource Person in a Workshop by National Resource Centre for Education, National Institute of Educational Planning and Administration (NIEPA) for generating Life Sciences Resources for Teachers in Higher Education on December 6 & 7, 2018
- ❖ Resource person in the INSPIRE (Innovation in Science Pursuit for Inspired Research) Science Camp organized by Shivaji College, University of Delhi, on July 16-20, 2018
- ❖ Convenor of a workshop on 'Biostatistics: Statistical Inference and Hypothesis Testing' held on November 12, 2018 at Shivaji College, University of Delhi, Raja Garden, New Delhi – 110027.
- ❖ Member of the Core Organizing Committee for National Conference "ICFOST" at IIT-Kharagpur, December-2007
- ❖ Member Editorial Board of the First Newsletter Launched by Placement Cell, Shivaji College (March, 2018)
- ❖ Resource person in the Workshop 'Lab Skill Training Workshop for Laboratory Assistants/Attendants in Chemical and Life Sciences' organized by Shivaji College, University of Delhi, from July 10-14, 2017.
- ❖ Resource person in the INSPIRE (Innovation in Science Pursuit for Inspired Research) Science Camp organized by Shivaji College, University of Delhi, on December 14-18, 2016
- ❖ Resource person for Technical Session II of Interdisciplinary Workshop "Sharing Science, Rising Together: Workshop for Faculty of Sciences" organized by Department of Botany, Shivaji College, University of Delhi, on October 1, 2016
- ❖ Convenor in the Workshop 'Lab Skill Training Program for Laboratory Assistants/Attendants in Chemical and Life Sciences' organized by Shivaji College, University of Delhi, from 16-18 July, 2014.
- ❖ Member, Organizing Committee, for Workshop 'Ankuran' on 'Development of Herbal Garden' organized by Eco-Club of Shivaji College, University of Delhi held on January 29, 2015. Was involved intensively in compiling the list of medicinally important herbs along with their botanical name, family, economically important plant part and their medical applications.

Cultural/Extracurricular Activities

Organised Following Educational Visits:

- ❖ Lab visit for Botany (Hons.) 4th semester students to Center for Rural Development and Technology, Indian Institute of Technology, Delhi (April 16th, 2018)
- ❖ Industrial Visit for Botany (Hons.), 6th semester students to Yakult Plant, Sonapat, Haryana (March 27, 2018)
- ❖ TERI, The Energy and Resources Institute, Gurugram, Haryana for B.Sc. (Hons.) Botany Semester VI students on 18 February, 2019
- ❖ Center for Conservation of Blue Green Algae, Division of Microbiology & Biofertilizer Unit of Indian Agricultural Research Institute for students of Botany (Honours), 1st semester on September 4th, 2018.

Also, accompanied students for Environmental Sciences Field Visit:

- ❖ Field trip to *Yamuna Biodiversity Park* with students of Botany (H), 2nd semester to make an inventory of local flora on 20th April, 2015
- ❖ Field trip to *Kamla Nehru ridge (University of Delhi)* with students studying Environmental Sciences (compulsory paper) on 10th April, 2015
- ❖ Yamuna Bio-diversity park to observe World Wetland day with students of B.Sc. Hons. Botany Semester II and IV on February 2, 2019

Other activities:

- ❖ Member of *Alumni Meet Organizing Committee* for alumni meet held on 8th March, 2015 and June, 2016 at Shivaji College
- ❖ Convener of Salad Making Event of Annual Science Fest “Convergence” organized jointly by Department of Biochemistry, Botany, Chemistry and Zoology on 12th March, 2015 at Shivaji College
- ❖ Organised Department of Life Science Annual Fest (Verve 2018) in association with Department of Environmental Sciences, Shivaji College on 16th April, 2018
- ❖ As a Teacher -Incharge, Department of Botany (2018-19) organised following talks & events:
 - Padmashri Prof. S. K. Sopory (SERB distinguished fellow of the Department of Science and technology, Govt. of India at ICGEB & Ex Vice Chancellor JNU), entitled “Sensory Perceptions in Plants” on August 30th, 2018.
 - Prof. Atul Narang (Head, Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology, Delhi), entitled “Application of Biochemical Engineering Principles to Ethanol and Recombinant Protein Production” on January 29th, 2019.
 - Prof. K. S. Rao (Head, Department of Botany, University of Delhi), entitled “Climate Change: Past, Present and Future Implications” on March 5th, 2019.
 - Dr. Jeetendra Vaishya (Research Officer, National Medicinal Plant Board, Ministry of Ayush, Govt. of India), entitled “Medicinal Plants: Present Scenario and Future Prospects” on March 8th, 2019.

- Awareness workshop on “Application of Geoinformatics in Biology” for students on March 30th, 2019
- Workshop for students on “Biostatistics: Statistical Inference & Hypothesis Testing” (Theoretical and hands on -SPSS) on November 12th, 2018

Signature of Faculty Member