




Shivaji College Faculty Details Proforma

Title	Dr	First Name	Sunita	Last Name	Gupta	Photograph
Designation		Assistant Professor (Senior Scale)				
Address		168, IInd Floor, Vaishali, Pitampura, Delhi-34.				
OfficePhone No.						
Residence						
Mobile						
Email		sg.26sunita@gmail.com				
Web-Page						
Educational Qualifications		M.Sc (Zoology), Ph.D (Title of Thesis – Toxicological studies of <i>Lymnaea acuminata</i> and <i>Pila globosa</i> following Exposure to lead).				
Degree		University/Institute			Year	

Ph.D.	University of Rajasthan	1994
M.Phil./M.Tech.		
PG		
UG		
Any Other Qualification		
Career Profile		
<ul style="list-style-type: none"> • M.Sc (Zoology), Ph.D (Title of Thesis – Toxicological studies of <i>Lymnaea acuminata</i> and <i>Pila globosa</i> following Exposure to lead). • Teaching for eighteen years and continuing till date. • Participated in a 4 week Orientation Course from December 28, 2006 to January 24, 2007 at CPDHE, University of Delhi. • Refresher course in Environmental Studies from February 23, 2009 to March 17, 2009 at CPDHE, DU. • Refresher course in Life Sciences from February 15, 2011 to March 9, 2011 at CPDHE, DU. 		
Administrative Assignments		
<u>Contribution to Corporate Life of College:</u>		
<ul style="list-style-type: none"> • Hosted the Pricipal Scientific Advisor to Government of India, Prof.R.Vijay Raghavan at Shivaji College in a special visit on 1st May 2019 to encourage and appreciate the work done by the team of students guided by Dr.Sunita Gupta and Dr.Parul Kulshreshtha in their research project. • Hosted Dr.Shailja Vaidya Gupta, from the office of the Principal Scientific Adivsor to Govt.of India on 15th April 2019 and 1st May 2019. • Hosted Dr.Jim Cybulski, a Stanford Alumni, Co-inventor of foldscope and CEO, Foldscope Instruments, Inc. on 15th April 2019 and 1st May 2019. • Have been member of various Committee of college on several occasions. • Served as admission in charge (Department of Zoology, Shivaji College) in academic Session (2006-2007). • Served as Counsellor, during admission from 6th July, 2007 to 9th July, 2007. • Served as counsellor during the admissions 2008-09. • Served as admission in charge of B.Sc. programme (Life Science) during 2009-10. • Served as admission in charge (Department of Zoology, Shivaji College) in academic Session (2010-11). • Served as Teacher in charge and admission in charge of Department of Zoology during 2011-12. • Served as Teacher in charge and admission in charge Department of Zoology during 2014-15 (upto third week of September, 2014). 		

<ul style="list-style-type: none"> • Served as Teacher in charge and admission in charge of Department of Zoology during 2015-16. • Served as member, Grievance Cell, Shivaji College, during Academic Session 2017-18. • Served as admission in charge of B.Sc (Programme), Life Science for Academic Session 2018-19. • Member, discipline Committee for the Academic Session 2018-19. • Served as Teacher-in-charge and admission in charge of Department of Zoology, Shivaji College for academic session 2019-20. • Member, Cultural Committee and Discipline Committee for academic session 2019-20.
<p>Areas of Interest/Specialisation</p>
<p>Environmental Toxicology, Ecology and Physiology</p>
<p>Subjects Taught</p>
<p>Teaching for eighteen years and continuing till date.</p> <ul style="list-style-type: none"> • Classes taught – B.Sc. (Hons.) Zoology. • At present teaching – Ecology, Physiology, Nonchordata & Chordata.
<p>Innovation Project/Research Projects (Major Grants/Research Collaboration)</p>
<p><u>Innovation Project (SH-307)</u></p> <p>“Amelioration of Air quality in urban ecosystem of Delhi”. Role of Avenue trees and use of birds as bio-monitors under Delhi University Innovation Project (2015-16).</p> <p><u>Project from the Department of Bio-technology</u></p> <p>“To record the seasonal variation of invertebrate biodiversity in Riparian zone of the Yamuna River in Delhi-NCR region by using foldscope as a research tool” (2018-19).</p> <ul style="list-style-type: none"> • Foldscope Project: Making Science Education popular in India using Frugal inventions like Foldscope. Funded by Department of Biotechnology, Ministry of Science and Technology, Govt.ofIndia, July 2018 to Oct.2019 • Principal Investigator of a research project,“To record the seasonal variation of invertebrate biodiversity in Riparian zone of the Yamuna River in Delhi-NCR region by using foldscope as a research tool”, sanctioned by the Department of Biotechnology, Govt. of India. Project extension from March 30th 2019 to 18th September 2019
<p>Publications Profile (<i>Research Papers/Books</i>)</p>

- Bioaccumulation of lead in experimentally exposed freshwater mollusc, *Pila globosa*. *Indian J. Environ. & Toxicol.* (1994) 4 (2) : 19-24.
- Uptake of lead acetate by freshwater mollusc, *Lymnaea acuminata*. *Indian J. Environ. & Toxicol.* (1995) 5 (2) : 63-64.
- Histopathological studies of various organs of freshwater gastropod, *Pila globosa* after treatment with lead acetate. *Indian J. Environ. & Toxicol.* (1996) 6 (2) : 67-71.
- Influence of calcium on the uptake and deposition of lead in *Pila globosa*. *Indian J. Environ. & Toxicol.* (1996) 6 (1) : 39-42.
- Acute toxicity of lead to two species of freshwater gastropod molluscs, *Lymnaea acuminata* and *Pila globosa*. *Indian J. Environ. & Toxicol.* (1996) 6 (1) : 48-49.
- Influence of lead in various organs of *Lymnaea acuminata* after supplementation with calcium chloride. *Geobios.* 23..251-258, 1996.
- 3-D Bioprinting, a science of New Possibilities and New Cures. International Journal of Biotechnology and Biomedical Sciences. P-ISSN:2454-4582, e-ISSN:2454-7808, Volume 2, Issue 3, July-December-2016 PP 238-242.
- Presented a paper titled 'Seasonal variation in the Biodiversity of Invertebrates of Yamuna River in Delhi' in National Conference on Advances in Microscopy and foldscope held by Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, India on 15-16 March, 2019.

Conference/Seminar/Faculty Development Programme/Workshop

Organized the following Research activities:

- Convenor for the Webinar, "Biosafety measures and Biocontainment of pathogens in Biological Research" organized by the Department of Zoology on the Zoom Platform of Shivaji College, Delhi, India on 30th April 2020.
- Convenor for the online poster-making competition on the theme, "Psychological, Socio-economic and Health effect of COVID-19 Pandemic", organized by 'Oyster', the Zoological Society of Shivaji College, on 26th April 2020.
- Convenor and Resource Person for the One-day workshop on "Assembly and Use of Foldscope" on 18th Oct.2019 at Deen Dayal Upadhyaya College, University of Delhi, India under the aegis of the Science Foundation.
- Convenor and Resource Person for the Department of Biotechnology [Government of India] sponsored, Field workshop on "Water and soil sampling techniques to study the Yamuna river biodiversity" on March 31st 2019.
- Convenor and Resource Person for the Department of Biotechnology [Government of India] sponsored, Hands-on workshop on Foldscope Assembly and uses" on April 2nd 2019 at Department of Zoology, Shivaji College, India.
- Convenor and Resource Person of the Department of Biotechnology [Government of India] sponsored, Research internship program to study the ecological parameters and invertebrate diversity of Yamuna River in Delhi till 15th April 2019,

India.

- Convenor and Resource Person of the Department of Biotechnology [Government of India], hands-on workshop conducted by Dr.Jim Cybulski, “Unfolding the foldscape” on 15th April 2019 at the Department of Zoology, Shivaji College, India.
- Presented the research work conducted for the research project **“To record the seasonal variation of invertebrate biodiversity in Riparian zone of the Yamuna River in Delhi-NCR region by using foldscape as a research tool”**, to the Principal Scientific Advisor to Govt.of India, Prof.K.Vijay Raghavan at a special visit to Shivaji College on 1st May 2019, based on the 1st year project report submitted to Dr.Shailja V.Gupta [the Senior Adviser to PSA to Govt.of India].

Training and Conferences attended

- Attended a training course on computer concepts from February1, 2010 to February 12, 2010 at Delhi University Computer Centre, Delhi.
- Participated in International Conference on “Multidisciplinary Approaches to Diabetes Research and Health” from November, 14-16, 2010, Jaipur.
- Participated in National Symposium organised by Departments of Botany and Biochemistry, Shivaji College, University of Delhi.
- Participated in the 2 day workshop on “Ecology and Environmental Management” held on 29th and 30th July, 2005 at Sri Venkateshwara College, DU.
- Session-in-charge and resource person in Workshop for laboratory staff in Chemical and life sciences organized and held at Shivaji College on 17-19 July, 2014.
- Presented Poster titled “can we use Birds as an ecological indicators of sustainable cities”, held at Shivaji College, University of Delhi, Raja Garden, New Delhi, on 22nd March, 2016.
- Attending workshop on ‘Environmental Pollution and Health in urban ecosystem’, organized by Shivaji College, DU and Department of Environmental Studies, North Campus, University of Delhi on 23rd June, 2016.
- Participated in International Conference and Outreach Program on “Environment and Ecology: Sustainability and Challenges” (ENCON 2017) held at Sri Venkateshwara College, DU, New Delhi on 4-6 January, 2017.
- Presented a Research paper titled “3D Bioprinting” A science of new possibilities and new cures” in International Conference on ‘Recent Research in Biomedical Engineering, Cancer Biology, Stem Cells, Bioinformatics and applied Biotechnology (BECBAB-2017) held in Jawahar Lal Nehru University (JNU), New Delhi on 25th February, 2017.
- Instructor for field workshop on ‘Water and Soil sampling techniques to study the Yamuna River biodiversity’ organized by Department of Zoology, Shivaji College, University of Delhi on 31st March, 2019 under the DBT Foldscape Initiative.
- Resource Person in a hands-on workshop pn “Foldscape-Assembly and uses” organized by Department of Zoology, Shivaji College, University of Delhi on 2nd

April, 2019 under the DBT Foldscope Initiative.

- Resource person in Research internship Program to study the ecological parameters and Invertebrate diversity of Yamuna River in Delhi organized from January 15, 2019 to April 15, 2019 by Department of Zoology, Shivaji College, University of Delhi under the DBT Foldscope Initiative.
- Participated in various workshops and seminars.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

Guide of Junior Research Fellow Miss Deuvshree Sharma from 3rd July'2018 to 3rd July'2019.

Project: ,“To record the seasonal variation of invertebrate biodiversity in Riparian zone of the Yamuna River in Delhi-NCR region by using foldscope as a research tool”, sanctioned by the Department of Biotechnology, Govt. of India.

Awards and Distinctions

Ph.D Doctorate Degree from university of Rajasthan, Inida in 1994.

Memberships

Other Academic Activities

Foldscope Super Mentor for India: Making science education popular in India with frugal invention like foldscope.

Have been part of several Academic Committees at College level.

Cultural/Extracurricular Activities

Have been part of several Cultural Committees at College level.



Signature of Faculty Member