



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	Dr	First Name	APARNA	Last Name	NAUTIYAL (nee GAIRI)	Photograph
Designation	ASSISTANT PROFESSOR					
Address	640, Sector-A/ Pocket B And C, Vasant Kunj, New Delhi-110070					
Phone No. Office	01126439565					
Residence	-					
Mobile	9811121882					
Email	aparnagairi@gmail.com					
Web-Page						
Educational Qualifications						
Degree	Institution	Year				
Ph.D.	Department Of Botany, DU	2006				
M.Phil.	Department Of Botany, DU	2002				
PG	Miranda House, DU	2000				
UG	Gargi College, University Of Delhi	1998				
Any other qualification	PGDCP	2001				
Career Profile						
Assistant Professor – 2005-2014 (2005-2010 as an ad-hoc)						
Academic Staff College Orientation / Refresher Course Attended						
Name of the Course	Place	Duration		Sponsoring Agency		
Orientation Course OR-77	CPDHE, University of Delhi	4 weeks (June – July, 2014)		UGC		
Refresher Course in Research Methodology (ID)	CPDHE, University of Delhi	3 weeks (June – July, 2015)		UGC		
Refresher Course In Life Sciences	CPDHE, University of Delhi	3 Weeks (17 th July-6 th August, 2018)		UGC-HRDC		

Administrative Assignments

- 2006- Worked as a member in Organising Cultural Festival of Acharya Narendra Dev College, Kalkaji.
- 2008- Assisted in B.Sc. Foundation Course Workshop held by ILLI in Daulat Ram College, October 2008.
- 2010- Assisted in ICT workshop for training of teachers conducted by ILLI in Daulat Ram College from January – March 2010.
- 2011- Worked as a Co-Convener of Science in AWP Committee during College Admissions 2011-12.
- Member of Garden Committee of College.
 - Involved in evaluation of answer sheets for B.Sc. Life Sciences and Honours courses at Central Evaluation Centre, Miranda House.
- 2012- Member, Organizing Committee in the “INSPIRE Internship Program-2012” Organised by Deshbandhu College held from October 1-5, 2012.
- Involved in evaluation of answer sheets for B.Sc. Life Sciences and Honours courses at Central Evaluation Centre, Miranda House.
- 2013- Co-Convener of Science in AWP Committee during College Admissions 2013-14.
- Member in Canteen Committee of College.
 - Member in Prize Distribution Committee for Annual Day, 2013 of College.
 - Member in “Write Off of Lab Instruments Committee” of Chemistry Deptt. for the year 2013.
 - Co-ordinator of Singing Competition in Cultural Festival “Sabrang” 2013 of College.
 - Member in Modulation Committee of DC- II Syllabus for III Sem FYUP (Botany).
 - Member, Organizing Committee in the “INSPIRE Internship Program-2013” Organised by Deshbandhu College held in December 2013.
 - Additional Examiner in setting of question paper for B.Sc. (Hons.) Botany Semester-III.
 - Involved in evaluation of answer sheets for FYUP (Botany), B.Sc. Life Sciences and Honours Courses at Central Evaluation Centre, Miranda House.
- 2014- Member in Organizing Committee of Cultural Festival “Sabrang” 2014.
- Member in Preparation of Guidelines for Practical Examination 2014 for DC-I Paper -3.
 - Member in Refreshment Committee for Annual Day 2014.
 - Involved in evaluation of answer sheets for FYUP (Botany), B.Sc. Life Sciences and Honours Courses at Central Evaluation Centre, Miranda House.
- 2015- Convener, Stage Committee of Annual Day Function, 2015 in College
- Member, Organizing Committee in the “INSPIRE Internship Program-2015” Organised by college held from December 14-18, 2015.
 - Worked as a Nodal Officer for Innovation projects sanctioned to Deshbandhu College for the year 2015-16 by the University of Delhi
- 2016- An active member of Canteen Committee and Financial Assistance Committee of Deshbandhu College for 2016-17
- Member of Stage Committee of Annual day function, April 2016.
- 2017- Convener of Stage committee, Annual Day, April, 2017.
- 2018 - Convener of Stage Committee, Sabrang Cultural Festival, 2018.
- Staff Advisor, Botanical Society of College from 2017-18.
 - Editor, Annual Magazine “Petals” published by Deshbandhu College Botanical Society – Sanjeevani, 2018.
 - Secured 3rd position in 10m Race (women) on the Annual Sports Day 2017-18 of Deshbandhu College.

Areas of Interest/Specialization

Plant Tissue Culture, Plant Growth and Development

Subjects Taught

Name of the Course	Year/Semester	Name of the Subject	Year
B. Sc. (Prog)/ Life Science	Annual (I, II)	Biology	2008-2011
B. Sc. (H) Botany	Annual (I, II & III)	Botany	2005-2011
B. Sc. (General) Gr-B	Annual (II & III)	Botany	2005-2007
B. Sc. Life Science	Semester-I,II,III,IV	Botany	2010-2014
B. Sc. (H) Semester	I,II,III,IV,V & VI	Botany	2010-2014
B. SC. (FYUP) Botany	Semester-I & II	Botany (DC-I)	2013-2014

Research Guidance

-

Publications Profile1. **Book Authored**

Co- authored a book entitled “ Biology – The Science of Life and Diversity” published by Medtech Publication House.

2. **Publications in International Journals**

- In vitro stimulation of shoot-buds on hypocotyls of *Linum* seedlings, by flooding and etherel treatment of cultures. Vol. 163 (2002) 691-694 Plant Science, Elsevier Science Ireland Ltd.
- TDZ- induced somatic embryogenesis in non-responsive caryopses of rice using a short treatment with 2,4-D. Vol. 76: 29-33, 2004 Plant Cell, Tissue & Organ Culture, Kluwer Academic Publishers, printed in Netherlands.
- Direct differentiation of somatic embryos on different regions of intact seedlings of *Azadirachta* in response to thidiazuron. Vol. 161 (2004) 1073-1077. Journal of Plant Physiology, Elsevier Science.
- Direct differentiation of somatic embryos on cotyledons of *Azadirachta indica*. Vol. 49 (2005) 169-173. Biologia Plantarum, Kluwer Publishers, Netherlands
- Potential of Organic Farming in Production of Environment Friendly Sugarcane. Current Nutrition & Food Science. Bentham Science Publishers. 2014 Vol. 10, No. 3.

3. **Papers in National Conference Proceedings**

- Role of Medicinal Plants in women healthcare, 2015 In Proceedings of symposium on Medicinal Plants, organised by Ramjas College, 2015.
- “Significance of Avenue Trees as an indicators and scavengers of air pollution in metropolitan cities” in Proceedings booklet of National Conference on “Environmental Concerns of 21st Century: Indian and Global Context” – organized by Zakir Husain College (evening), University of Delhi.
- “Higher Plants as Indicator of Urban Air Quality” in Proceedings booklet of National Conference on “Environmental Concerns of 21st Century: Indian and Global Context” – organized by Zakir Husain College (evening), University of Delhi.
- “Exploring the medicinal potential of a commonly occurring weed plant – *Euphorbia hirta* “ in the Proceedings booklet of National Seminar on Innovative, Advance Research in Bio-medical and Environmental Dynamics, Deptt of Chemistry, Dyal Singh College, University of Delhi.
- “CALOTROPIS PROCERA: A MAGICAL WILD PLANT WITH BLESSINGS IN HUMAN BIOLOGICAL SYSTEM “ in the Proceedings of National Seminar on Innovative, Advance Research in Bio-medical and Environmental Dynamics, Deptt of Chemistry, Dyal Singh College, University of Delhi.

List against each head(if applicable)

Seminars /Workshop Attended/ Poster presented

- National Symposium on ‘Frontiers and Avenues in Plant Science’, organized by Department of Botany, Shivaji College, University of Delhi – Jan, 2011

- Indo-Swiss Collaboration in Biotechnology (ISCB) International Conference, organized by University of Delhi, Feb, 2011
- National Workshop – Evolutionary Perspectives in modern Biological teaching and research, organized by Institute of Life Long Learning, Centre for Science Education and Communication & Acharya Narendra Dev College, University of Delhi, May, 2011
- Bioinformatics Workshop for Life Science Faculty, Organized by Sri Venkateswara College, University of Delhi, Jul, 2011
- National Symposium on Recent trends in Innovative Research at Undergraduation : Science and Society organized by Sri Venkateswara College, Feb, 2013
- National Symposium on Vector Biology and Vector Management, 2013 organized by Deshbandhu College, Jun, 2013
- Workshop on “Applied Genomics and Proteomics” in Collaboration with BioRad Company organized by Deshbandhu College, 12-14 March 2014
- International Conference on “Emerging Trends of Nanotechnology in Drug Discovery” organized by Sri Venkateswara College and Deptt. of Biochemistry, South Campus, University of Delhi in association with University of Madeira, Portugal held on May 26-27, 2014.
- Workshop on “IPR, Patenting and Patentability Assessment” organised by IPR Cell and Research Council held on 4th September, 2014 at Cluster Innovation Centre, DU, Main Campus.
- “National Symposium on Vector Biology” organized by Zoology Deptt. held on Feb, 2015 at Deshbandhu College.
- Participated in 1st Himalayan Conclave 2015, Sep 9-10, 2015 organized by Institute of Bioresources and Sustainable Development in association with Deptt of Botany, University of Delhi, HESCO and IHBT, CSIR.
- Participated in 1st Knowledge Conclave for Colleges and Universities Organized by Centre for Science and Environment, Green Educators Network, New Delhi on January 28-29, 2016.
- Participated in India International Science Festival, Young Scientists Meet, 5-7 December, 2015, IIT, New Delhi
- Participated as a Jury member in Judging “INSPIRE SCIENCE PROJECTS” of Schools across all over India at India International Science Festival (IISF), 7-8 December, 2015, IIT, New Delhi.
- Presented a poster on “**Exploring the medicinal potential of a commonly occurring weed plant – *Euphorbia hirta***” on 9-10 Oct, 2015 in the National Seminar on Innovative, Advance Research in Bio-medical and Environmental Dynamics organized by Deptt of Chemistry, Dyal Singh College, University of Delhi.
- Participated in poster presentation on “**CALOTROPIS PROCERA: A MAGICAL WILD PLANT WITH BLESSINGS IN HUMAN BIOLOGICAL SYSTEM**” on 9-10 Oct, 2015 in the National Seminar on Innovative, Advance Research in Bio-medical and Environmental Dynamics organized by Deptt of Chemistry, Dyal Singh College, University of Delhi.

- Participated in poster presentation on **“Nano herbal drug delivery system: An effective tool for enhancing bioavailability of phytomedicines”** in Indo-Portugese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology from 12-13 February, 2016 organized by Deptt of Chemistry, Hansraj College and Deshbandhu College, University of Delhi, India in association with CQM, University of Madeira, Portugal.
- Poster presentation entitled **“Significance of Avenue Trees as an indicators and scavengers of air pollution in metropolitan cities”** in National Conference on “Environmental Concerns of 21st Century: Indian and Global Context” held on 21-22nd March, 2016 at Zakir Husain College (evening), University of Delhi, New Delhi.
- Poster presentation entitled **“Higher Plants as Indicator of Urban Air Quality”** in National Conference on “Environmental Concerns of 21st Century: Indian and Global Context” held on 21-22nd March, 2016 at Zakir Husain College (evening), University of Delhi, New Delhi.
- Poster presentation entitled **“Novel nanoherbal formulation strategies: A new paradigm for improving targeted drug delivery system”** in National Symposium on Nanobiotechnology“ held on 31st March-1st April, 2016 at BIOTIKOS, 2016, TERI University, New Delhi.
- Poster presented entitled **“Phytoremediation : An effective tool for mitigating geogenic arsenic contamination”** in National Symposium on Geogenic Contamination of Groundwater organized by Department of Regional Water Studies, TERI University, New Delhi.
- Poster presentation entitled **“Air Quality Index: an efficient tool to keep a check on rising air pollution in Delhi”** in International Conference on “Green Chemistry in Environmental Sustainability & Chemical Education”(ICGC-2016), held on 17-18th Nov, 2016 at Daulat Ram College, University of Delhi.
- Participated in India International Science Festival, Young Scientists Meet, 8-10th December, 2016, NPL, Pusa, New Delhi
- Participated as a Jury member in Judging “INSPIRE SCIENCE PROJECTS” of Schools across all over India at India International Science Festival (IISF), 10th December, 2016, NPL, Pusa, New Delhi.
- Participated in Faculty Development Programme on Ecology, organized by Hansraj College, University of Delhi on 12-13th December, 2016.
- Poster presentation entitled **“Significance of traditional knowledge of medicinal plants in different parts of Uttarakhand”** in National Conference on Pharmacognosy: Scope of Phytochemically Unexplored Medicinal Plants” held on 12th Jan, 2017 at Deptt. of Botany, Zakir Husain College (morning), University of Delhi, New Delhi.
- Participated in “National workshop on Medicinal Botany and Drug Discovery” organized by Ramjas College, University of Delhi on 30-31st Jan, 2017.
- Participated in 2nd Knowledge Conclave for Colleges and Universities Organized by Centre for Science and Environment, Green Educators Network, New Delhi on March 6-7, 2017.
- Poster presentation in **2nd National Conference on “Environmental Concerns of 21st Century: Indian and Global Context”** held on 29-30nd March, 2017 at Zakir Husain College (evening), University of Delhi, New Delhi.

- Poster presentation *in 3rd* National Conference on “Environmental Concerns of 21st Century: Indian and Global Context” held on 27th-28th March, 2018 at Zakir Husain College (evening), University of Delhi, New Delhi.

Research Projects (Major Grants/Research Collaboration)

Worked as an Principal Investigator under Delhi University Innovation Project scheme 2015-16 in a project (DBC-311) entitled “Unbeatable Air Pollution in Delhi: Trees for Rescue - A comparative study of different plant species to combat rising pollution in Delhi” and guiding undergraduate students

Awards and Distinctions

- 1 M. Phil (Botany)-Distinction
- 2 UGC Scholarship from Centre of Advance Studies in Botany, Department of Botany, University of Delhi, M. Sc. (Part I & II), 1998-2000.
- 3 Qualified for Merit list of Top 20 in Shyama Prasad Mukherji Fellowship, CSIR-UGC test, 2002.
- 4 NET (CSIR-UGC test), HRDG, New Delhi - 2001.
- 5 ICMR (JRF), New Delhi - 2001.

Association With Professional Bodies

1. *Association Of Teachers In Biological Sciences (ATBS) Since 2012.*
2. *Indian Women Scientist’s Database since 2008*

Aparna Nautiyal

Signature of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.