




Shivaji College Faculty Details Proforma

Title		First Name		Last Name		Photograph
	Prof.		Anuradha		Mal	
Designation		Professor				
Address		Department of Botany Shivaji College (University of Delhi) Raja Garden New Delhi 110027				
Office Phone No.		011 25116644				
Residence		K 59; South City 1; Sector 41; Gurugram 122001; Haryana				
Mobile		9811335843				
Email		anuradha21mal@gmail.com				
Web-Page						
Educational Qualifications		M.Phil., Ph.D.				
Degree		University/Institute			Year	
Ph.D.		University of Delhi			1986	
M.Phil./M.Tech.		University of Delhi			1982	
PG		Kurukshetra University			1980	
UG		University of Delhi			1978	
Any Other Qualification		Post Doc			1987	
Career Profile						

Professor, Department of Botany, Shivaji College: 1/7/2022- till date
Associate Professor, Department of Botany, Shivaji College: 01/01/06- 30/6/2022
Reader, Department of Botany, Shivaji College: 27/07/98- 31/12/05
Senior lecturer, Department of Botany, Shivaji College: 30/10/90- 26/10/98
Permanent Lecturer, Department of Botany, Shivaji College: 03/02/88 - 29/10/90
Adhoc and temporary lecturer, Department of Botany, Shivaji College: 30/10/85 - 02/02/86
Visiting Scientist, Khoday Biotech; Palm Grove Nurseries Bangalore: 01/08/94 - 30/03/96
Guest Researcher, National University of Science and Technology (NTNU), Trondheim Norway 15/08/97- 09/11/97
Academic Staff Exchange, NTNU; Trondheim; Norway : 01/04/09- 30/9/09
Post Doc Fellow, NTNU; Trondheim; Norway: 01/09/10- 1/10/10; 15/09/11- 15/10/11

Administrative Assignments

Member time table Committee 1998 to 2000
Started Women Development Club in College 2003
Convener WDC 2003 to 2006
Convener Cultural Committee 2007 to 2010
Convener Cultural Committee 2013 to 2015
Member Placement Committee 2013 to 2014
Convener Discipline Committee 2011- 2013
Convener Admission Committee 2012 to 2013
Member Library Committee 2014 to 2015
Convener Library Committee 2015 to 2016
Convener Student Advisory Committee 2016 to 2018
Superintendent Examinations 2017
Convener Website committee 2018 to till date
Member Entrepreneur cell
Member IQAC 2015 till date
In-charge Botanical Society 1999 to 2003
Convener, DBT Star College Scheme, Department of Botany, Delhi University: 2019-till date
Superintendent, Practical Examination, Shivaji College, Delhi University: 2021-2022
Teacher-in- Charge, Department of Botany, Shivaji College: 2006-2007; 2012-2013; 2021- 2022
Teacher-in- Charge, Department of Life Sciences, Shivaji College: 2020- 2021
Staff Council Secretary, Shivaji College 2018-2021
Convener, Diamond Jubilee Celebrations Committee: 2020-2021
Convener, Website Committee: 2018-2019
Member, Internal Quality Assurance Committee (IQAC): 2015 2020
Member, Entrepreneurship Development Cell: 2018-2021
Member, Committee of Courses for Honours, Post-graduate and Research Studies, University of Delhi: 2021-2023
Nodal person, Science Setu Programme, Shivaji college: 2016- 2019
Member, Syllabus upgradation NEP: B. Sc. (Hons.) Botany Theory and Practical Reproductive Biology of Angiosperms; Reproductive Ecology: Department. of Botany, Delhi University: June, 2022

Areas of Interest/Specialisation

Reproductive Biology of Angiosperms
Plant Tissue Culture
Microscopy
Plant Biotechnology

Subjects Taught

B Sc (Hons) Botany
Reproductive Biology of Angiosperms UPC 32161501 Theory and Practical
Biomolecules and Cell Biology UPC 32161102 Practical
Plant Biotechnology UPC 32161602 Practical
Archegoniatae UPC 32161102 Practical

B Sc Life Science
Plant Anatomy and Embryology UPC 42164301 Practical
Analytical Techniques in plant Sciences UPC 42167904 Theory and Practical

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

SHC 308: "A Dried Blood Spot collection study for detection of Brucellosis in Bovine Population of Indian villages: An ELISA based system specific to Omp 25 and Omp 28 proteins of Brucella abortus" Co-PI: Minor Innovation Project: 31/08/15-01/11/16 (Rs. 5 lakhs)

PI of "Exploration and Documentation of tree species in and around Shivaji College"; 01/05/19-30/04/21 in DBT star college scheme

PI of "Identification of pollutants on leaves of roadside plants": 01/05/22-30/04/23: DBT star college scheme

Publications Profile (Research Papers/Books)

1. Prabhavathi and Anuradha Mal. Nutraceutical properties of Vinca rosea, Biomedicine (2022). 42(3):427-433, ISSN 0970-2067
2. Prabhavathi, Bamel Kiran, Mal Anuradha, and Pandey Roopali. (2022). Role of osmoprotectants: transgenic approach for various stresses. Research Journal of Biotechnology. 17(7):156-153, E-ISSN 2278-4535
3. Anuradha Mal and Devender Singh Meena. (2022). Phyllanthus emblica: A Herbal Remedy for Healthy life. ECS Transactions, 107(1): 3199-3206, ISSN 1938-6737
4. Prabhavathi, Roopali Pandey, Anuradha Mal and Kiran Bamel 2022, Osmoprotactants: Protective role under various stresses, International Journal of Botany Studies 7(2):108-113, ISSN 2455-541X
5. Nimita Kant, Parul Kulshreshtha, Rashmi Singh, Anuradha Mal, Amit Dwivedi, Riya Ahuja, Rinkle Mehra, Mohit Tehlan, Paritosh Ahmed, Shilpa Kaushik, Shipra, Shashikant Kumar, Aas Mohammad, Shri Krishn Shukla, Damini Singh, and Rakesh Bhatnagar. (2018) A Study to identify the practices of buffalo keepers which inadvertently lead to the spread of brucellosis in Delhi. BMC Veterinary Research 14: 329, E ISSN 1746-6148
6. Nimita Kant, Parul Kulshreshtha, Rashmi Singh, Anuradha Mal, Shashikant Kumar, Mohi Tehlan, Amit Dwivedi, Rinkle Mehra, Riya Ahuja, Shilpa Kaushik, and Paritosh Ahmed.

- (2015) Prevalence of brucellosis and awareness of its spread. DU Journal of Undergraduate Research and Innovation. 4(1): 43-49, ISSN 2395-2334
7. Bhandari N N and Anuradha Mal. (1989) Wall ingrowth or trabecula in the free nuclear embryo sac of *Scilla sibirica* Sato. Phytomorphology. 39(1): 21-28 ISSN 0031-2334
 8. Bhandari N N, Mrinal Bhargavea and Anuradha Mal. (1985) The mature ovule of *Papaver somniferum* Linn- A histochemical study. Phytomorphology. 35(1): 111-119 ISSN 0031-2334
 9. Bhandari N N and Anuradha Mal. (1984) Glycol methacrylate embedding- An improved procedure for optical microscopy. Current Science 53(22): 1186-1188 ISSN 0011-3891
 10. Bhandari N N and Anuradha Sachdeva (1983) Some aspects of organization and histochemistry of the embryo sac of *Scilla sibirica* Sato. Protoplasma 116: 170-178 ISSN 0033-183X
 11. Turmeric: A spice with medicinal properties Prabhavathi V, Anuradha Mal, Kiran Bamel (2022) Journal of Economic and Taxonomic botany 46 (3&4):89-96, ISSN 0250-9768
 12. Talwar T, Bamel K. Prabhavathi and Mal A (2022) Effect of high temperature on reproductive phase of plants: a review Nature Environment and Pollution Technology 21 (4):1887-1892, ISSN 2395-3454
 13. Anuradha Mal and Bhandari N N 1989. Localization of peroxidases during megasporogenesis in the ovules of *Scilla sibirica* Sato. Plant Science research in India 755-764 Tuesday and tomorrow publishers, ISBN-8170/93524
 14. Anuradha Mal. 2010. Bioremediation of wastewater using algae the botanica 58: 1-2 ISBN-00452629
 15. Pamil Tayal and Anuradha Mal 2015. Mitigatory measures under climate change. Proceedings of the National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective ISBN 978-93-5235-335-4
 16. Anuradha Mal and Prabhavathi 2016. Meditation for health and peace. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness. 133-134 ISBN 978-93-85822-10-0
 17. Embryo –endosperm relationship. 2015. Anuradha Mal and Seema Talwar: e-lesson on ILL portal vle.du.ac.in :ISSN 2349-154X
 18. Embryo. 2015 Anuradha Mal and Seema Talwar: e-lesson on ILL portal vle.du.ac.in :ISSN 2349-154X
 19. Female Gametophyte 2014. Anuradha Mal: e-lesson on ILL portal vle.du.ac.in :ISSN 2349-
 20. Megasporangium. 2014, Anuradha Mal: e-lesson on ILL portal vle.du.ac.in :ISSN 2349-154X

Presentations: Full Paper

Paper presentation on Philosophy of Bhagavad-Gita and its relevance in present world scenario. Anuradha Mal: in 3rd SSEASR Conference, 2nd -5th June 2009, Bali, Indonesia.

Poster presentations:

1. Air pollution and its impact on human health, Crops and ecosystem. 2016. In National seminar on water quality in Urban Ecosystems. Pratima Sardar, Seema Talwar and Anuradha Mal Shivaji College
2. Seroprevalence survey of Brucellosis in buffalo population of Delhi NCR region 2016 at Bioepoch National symposium, School of Biotechnology JNU, Delhi.
3. Climate change Mitigation (2015) Tayal, P and Mal, A. in National Conference on "Climate Change: Impacts, adaptation, mitigation scenario and future challenges in Indian perspective held on 2nd and 3rd March 2015, Deen Dayal Upadhyaya College.
4. Plants as spiritual messengers. Anuradha Mal in International Conference on Science, Spirituality and Humanity: Transcending Discipline Barriers, 17th – 19th, Shivaji College
5. Impact of Yoga on life style disorders. Anuradha Mal and Prabhavathi; In National seminar on life style disorders, Shivaji College, 2016

Conference/Seminar/Faculty Development Programme/Workshop

WORKSHOPS

1. Workshop on Cell Biology, Department of Genetics, University of Delhi
2. Biofertilizers, Zakir Hussain College, July 14-16, 2016.
3. Ankuran on Development of Herbal Garden” Shivaji College, University of Delhi, in collaboration with NMPB, Ministry of AYUSH, Govt. of India, CEE, Department of Environment on January 29, 2015.
4. Environmental Pollution and Health in Urban Ecosystem, Department of Botany and Zoology, Shivaji College and Department of Environmental Studies, University of Delhi on June 23, 2016
5. “3rd Lab Skill Training Workshop for Laboratory Attendants / Assistants of Chemical and Life Sciences” under Internal Quality Assurance Cell (IQAC) from July 10th -14th, 2017 in Shivaji College, University of Delhi.
6. INSPIRE Science Camp 2018 at Shivaji College, University of Delhi held from July 16-20, 2018
7. Convener, Intra College Laboratory Skill Training Program for Assistants/Attendants in Chemical and Life Science Laboratories, organised under DBT-Star College Scheme at Shivaji College, University of Delhi, from May 20-24, 2019
8. Convener, Summer Training Programme on “Microscopy and Herbarium Techniques”, organised by the Department of Botany, Shivaji College, University of Delhi, under DBT Star College Scheme from June 21–July 19, 2019
9. Convener, Inter-college Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories, under DBT Star College Scheme held on November 27-December 3, 2019, at Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027.
10. Convener of the workshop for Laboratory Assistants/ Attendants in Chemical and Life Sciences, organised by Shivaji College, University of Delhi on February 8-15, 2021.
11. Convener of Workshop for School Teachers in Biological and Chemical Sciences training programme was organised from March 22-26, 2021 in the labs of Shivaji College under DBT-Star College Scheme sponsored by Department of Biotechnology.
12. Organising secretary of the four week Inter-College, Online summer training on “Tools and Techniques in Plant Sciences: Morphology to Metabolome”, organised by Department of Botany, Shivaji College, University of Delhi on July 6-31, 2020.
13. Organising Committee Member of JUNIPER-2020, the Annual Botanical Fest organised by Fragrance, the Botanical Society, Department of Botany, Shivaji College on April 24, 2020.
14. Convenor, Member organizing committee and Resource Person for three sessions in Four-week Summer Training Programme on “Innovative Natural Resource Management Technologies for Youth” organized by Department of Botany, Shivaji College, University of Delhi, Under DBT Star College Scheme from June 20 – July 18, 2022.
15. Resource Person for “Intra College Laboratory Training Programme for Assistants/ Attendants in the Chemical and Life Science Laboratories” organized by Shivaji College under the aegis of DBT Star College Scheme from April 19 - 25, 2022.

CONFERENCES

1. National Conference on “Climate Change: Impacts, Adaptation, Mitigation Scenario and Future challenges in Indian Perspective” organized by Department of Botany, Deen Dayal Upadhyaya College, University of Delhi on March 2-3, 2015.
2. International Conference on “Public Health: Issues, Challenges, Opportunities, Prevention, Awareness; organized by Daulat Ram College, University of Delhi, Delhi – 110007 on January 15-16, 2016.

SYMPOSIUM, SEMINAR AND WEBINAR

1. National Seminar on “Water and Air Quality in Urban Eco-system” organized by EcoClub, Shivaji College, University of Delhi, New Delhi – 110027, on March 22, 2016.
2. National Symposium on “Lifestyle Disorders: understanding the molecular mechanisms” organized by Department of Biochemistry, Shivaji College, University of Delhi, New Delhi – 110027, on January 28-29, 2016
3. National Symposium on “Trends in research and Innovations in life sciences at

Undergraduate level” organized by Dept of Zoology, Deen Dayal Upadhyaya College, New Delhi, on March 30, 2016.

4. National Symposium on “Bioepoch 2016” organized by School of Biotechnology, Jawaharlal Nehru University, Delhi, 2016

5. Convener, Seminar on “Intellectual Property Rights” organised by Department of Botany under the aegis of DBT Star College Scheme, Shivaji College, University of Delhi, held on November 6, 2019.

6. Convener, Lecture on Smart City and Urban Risk, organised by Department of Botany under the aegis of DBT Star College Scheme, Shivaji College, University of Delhi, Delhi, held on January 27, 2020.

7. Member of the organising committee of National Webinar “Impact of coronaviruses on human central nervous system: latest updates and trends” organised by Department of Botany, Shivaji College, University of Delhi on January 16, 2021.

8. Member of the organising committee of National Webinar “Decolourization and detoxification of textile water using laccases of *Cyathus bulleri*” organised by Department of Botany, Shivaji College, University of Delhi on January 21, 2021.

9. Organising secretary of International Webinar “Environment gender and climate change” organised by Department of Botany, Shivaji College, University of Delhi on July 28, 2020.

10. Coordinator in conducting the Intellectual Property Awareness Programme under National IP Awareness Mission (NIPAM) in collaboration with the Office of the Controller General of Patents, Designs and Trade Marks (Ministry of Commerce & Industry, Government of India) on February 4, 2022.

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

Awards and Distinctions

1. Erasmus Mundus External Cooperation Window, Post-doctoral Fellowship, 2010 & 2011 (2 months) NTNU, Trondheim, Norway.

2. Erasmus Mundus External Cooperation Window, Academic Staff Exchange, 2009 (6 months) NTNU, Trondheim, Norway.

3. NUFU Fellowship, 1997 (3 months), NTNU, Trondheim, Norway.

4. Visiting Scientist, 1993-1996, (3 years), Khoday Biotek (tissue culture lab), Bengaluru,

5. Post –doctoral Research Fellowship 1yr 1 month

6. Senior research Fellowship CAS Department of Botany 2 years 6 months

7. Junior Research Fellowship CAS Department of Botany 2 years

Memberships

1. Member, Delhi University Botanical Society

2. Member, Indian Society of Cell Biology

Other Academic Activities

Evaluation and Examination duties: Every year

Nodal person, Science Setu Programme

Cultural/Extracurricular Activities

Have been the convenor of cultural committee of the college 2007 to 2010 and 2013-2015. Organized a number of cultural festivals including SPICMACAY events and promoted students to identify their talent and pursue it.



Signature of Faculty Member