

- Name **DR. GITA MATHUR**
- Department **BOTANY**
- Designation **ASSOCIATE PROFESSOR**
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Educational Qualifications

Qualification	Title/Course	University/School	Year
Schooling	Higher Secondary	St. Thomas' Girls Higher Secondary School, New Delhi	1971
Undergraduate	B.Sc. Honours Botany	University of Delhi	1974
Postgraduate	M.Sc. Botany	University of Delhi	1976
Ph.D.	Botany	University of Delhi	1983

TEACHING EXPERIENCE: 32 years (Since July 1983)

AREA OF SPECIALIZATION:

Research – Anthecology and Plant Reproductive Biology

Teaching – Plant Ecology, Archegoniates and Plant Resource Utilization

CAREER PROFILE:

Associate Professor, Department of Botany, Gargi College, 1997- till date

Senior Lecturer, Department of Botany, Gargi College, 1993-1997

Lecturer, Permanent, Department of Botany, Gargi College 1990-1993

Lecturer, Temporary, Department of Botany, Gargi College 1986-1990

Lecturer, Temporary, Department of Botany, Deshbandhu College, 1984-1986

Lecturer, Temporary (part-time), Department of Botany, Gargi College, 1983-1984

Lecturer, ad hoc, Department of Botany, Miranda House, September, 1977

COURSES AND SUBJECTS TAUGHT:

B.Sc. Hons. Botany	General Botany; Biodiversity; Plant Resource Utilization; Plant Ecology; Cell Biology.
B.Sc. Hons. Zoology Botany Subs.	Genetics; Ecology; Physiology
B.Sc.General/ Life Sciences/ Physical Science	Plant Anatomy; Plant Reproductive Biology
B.El.Ed.	Biology Liberal Option

Participation in Curriculum Restructuring

- Member of the **Committee of Courses and Studies for Honours, Post-Graduate and Research Studies in Botany, University of Delhi**, for two years (2000-2002).
- **Convenor (Botany Fellow, CSEC)** of a nine-day workshop on "The New Botany Syllabus: Challenges Ahead", organized by CSEC, University of Delhi, March 29 – April 8, 2004.
- **Member** of committee for the **revision of syllabus** of **B.Sc.(Hons.) and B.Sc.(Gen.)** for Plant Ecology, Archegoniates and Plant Resource Utilization.
- **Convenor** of Botany Liberal Option Group for Biology Liberal option papers for **restructuring of B.El.Ed** course, January 2016 onwards.

Preparation of Resource Materials:

- Contributed an article on using a weed for doing Botany practicals, to Biology Education in 1988
- Contributed to NCERT textbook on Biology for class XII, chapter 29 on Photosynthesis, in 1990.
- Wrote modifications of resource materials on "Global Change Education" prepared by ICSU, CTS & COSTED, at an Asian Workshop in November 1993.
- Developed and modified resource material on Environmental Education for college students at a workshop organized by CEE, Ahmedabad in April 1994.
- Prepared study materials for the workshop on Botany Laboratory Techniques in January 1995.
- Prepared handouts on various topics for teaching my regular classes.

RESEARCH:

Ph.D. thesis entitled:

Flower Colour Changes and Pollination in *Lantana camara*.

M.Sc. thesis entitled:

Physio-Chemical Studies on the Phenolic Constituents of seeds of *Antigonon leptopus*.

Major Research Project:

DST 1996-2000

Reproductive Biology of Eggplant, *Solanum melongena*. Research project awarded by Department of Science and Technology (DST), Government of India

Minor Research Project:

UGC 2001

Studies on Effect of Environmental Changes on Selected Herbaceous Plants of Delhi. Research project awarded by University Grants Commission, Government of India. Co-investigator: Dr. Bharati Bhattacharyya.

Award Winning Student Projects guided:

Gargi's Pathfinder Awards:

1. Sneha Dutta 2008

Ecological and microbial study of water of Sacred tanks of Kurukshetra.

(Teacher mentor: Dr. Gita Mathur)

2. Sohini Deb & Surbhi Sharma (2011) "Study of artificial colouring and extent of its penetration in Green Vegetables". (Teacher mentors: Dr. Gita Mathur and Dr. Geeta Mehta)

PUBLICATIONS:

Number of Technical Papers and Botanical articles published in International and National journals: **24**

BOOK EDITORIAL BOARD:

Member Editorial Board of book published by Gargi College. "**Quest For Excellence: Policy and Practice**" 2013, Published by WordsWorth India, Delhi. Pages 407.

BOOK CHAPTERS:

H.Y. Mohan Ram and **Gita Mathur, 2014. Blue Colour in Plants**; pages 25 - 43, In Kapila Vatsayayan (Ed.) Culture of Indigo in India: Plant, Product, Power, Niyogi Books, New Delhi.

Mathur, Gita, 2013, ICT-Enhanced Learning and Blended Learning: Experiences of a Botany Teacher, pages 306-318 in Ramachandran M. (ed.)

2013, Quest For Excellence: Policy and Practice, WordsWorth India publication, Delhi.

Workshop manuals published for workshops organized.

ePUBLICATIONS

EDITOR: eManaswini, Annual Publication of Gargi College Alumni Association.

Edited: **eManaswini Volume 1, 2013**

eManaswini Volume 2, 2014

eManaswini Volume 3, 2015

TEACHER ADVISOR to Editorial Board of Students:

Anthesis Volume 6, 2011

Anthesis Volume 7, 2012

Anthesis Volume 8, 2013

Anthesis Volume 9, 2014

Anthesis Volume 10, 2015

Contributed many articles to the above.

ONGOING PROJECT: Started January 4, 2016.

Title: Morphological and Ecological Studies of Some Plants Growing in Delhi and Bangalore.

AWARDS and HONOURS:

- **Merit Scholarship** awarded by **Centre of Advanced Studies in Botany, DU**, For 2 years during M.Sc. 1974-1976.
- **Junior Research Fellowship, UGC**, 1977-1979.
- **Senior Research Fellowship, UGC**, 1979-1981
- Major **Research project** awarded by **DST**, 1996.
- Minor **Research project** awarded by **UGC**, 2001.
- **Woman of the Year 2001 Award** by the American biographical Institute, North Carolina, USA

- **Distinguished Teacher Award by University of Delhi, 2009**



POSITIONS HELD AT GARGI:

- Teacher Representative to Gargi College Governing Body
- President of Alumni Association of Gargi College
- Principal Investigator of two research projects in Gargi College
- Teacher incharge of Botany department
- Incharge Botanical Garden
- Incharge / member organizing committee for Botanical Excursions to Chail, Mashobra, Nainital, Gangotri, Uttar Kashi, Mussoorie, Ranikhet, Simla, Solan, Panchmarhi etc.
- Deputy Superintendent of DU Examinations in Gargi College
- Convener / member of many Staff council Committees: Medical, Alumni, ICT, Library, College Magazine, Canteen, Science Admissions, Botany Admissions
- Students' Union Advisor for 8 years

CONTRIBUTIONS TO GARGI COLLEGE

Set up a Botany Research Laboratory in Gargi College with a grant awarded by DST (Dept. of Science & Technology, Govt. of India) in 1995.

- Many **technical papers** have been presented in International Botanical Conferences, from the studies done in this Botany Research Laboratory.
- **Departmental laboratories were upgraded with specially designed lab. bench lights and special ecological instruments** with grants from this research project.

Botanical Society:

- **Started** Gargi College Botanical Society (GCBS) in 1994
- **Prepared the Constitution** of Gargi College Botanical Society in 1994.
- **Revised the Constitution** of Gargi College Botanical Society in 2004.

Student Union Advisor:

- Student Union Advisor for **8 years**; organized all college functions and Inter-college festival, during this period.
- **Prepared the Constitution** of Gargi College Students Union in 1994
- Made Reverie a theme based fest, with **ENVIROFEST** in 1993

Alumni Association– “Manaswini”

Convener and President, Alumni Association:

- **Organized an alumni meet on January 6, 2013.**
- **Counselling sessions were organized with alumni.**
- **The following have been started for alumni interaction:**
 - Google discussion group: gargicollegealumni@googlegroups.com
 - Facebook page for alumni: **Gargi Manaswini**
 - Email ID for alumni: gargialumni@gmail.com
- Started publishing of an **online newsletter eManaswani** for alumni.

Other Initiatives at Gargi:

- Started Botany Inter-College Festival called FICUS
- Started the GCBS publication ANTHESIS in 2006
- First published eAnthesis (electronic version in 2010)

COURSES, SEMINARS, SYMPOSIA AND WORKSHOPS

1. Organizer / Convener of the following

- 2014 (June 10 & 11)
E-Resources on ICT enhanced Learning Methodologies for Biologists (Students of Sciences from Gargi College)
- 2009 (January 12, 13 & 15)
WikiEducator-Gargi 2009, a Workshop on Open Educational Resources at Gargi College, for the faculty of all departments of the college, on January 12, 13 and 15, 2009. The workshop was supported by the Commonwealth of Learning, Vancouver, Canada. Participants: 31 faculty members of Gargi College
- Workshop for three days, June 15, 16 & 17, 2004, on “New Experiments in Botany” for all the **teaching and laboratory staff of my department during the summer vacation** to train everyone as well as equip the labs for the new course for Botany Hons. to be implemented from this session 2004-05.

- Organized a workshop “Learning About Computers” for all the **Laboratory staff of the college** to teach them about computers & their use in labs. on June 16 & 17, 2000.
 - Started a three-month's course on "Environmental Education" for **teachers and students of Gargi College** in collaboration with Centre for Environmental Education, Ahemedabad. Was convener from 1994-96.
 - Organized a workshop for **Botany Laboratory staff** on "Botany Laboratory Techniques" with a session on “Safety in College Laboratories” for all the **Laboratory staff of the all the departments of Gargi college** during winter vacation from January 3 to 5, 1995 at Gargi College.
 - Co-convener of the **Inter-college course** on "Energy and Environment" for students of various colleges at Gargi College centre in 1994-95
 - Workshop on "Delhi's Polluted Environment" on February 14, 1992 in Gargi College, University of Delhi, as a part of the Silver **Jubilee Celebrations of Gargi College**.
 - Seminar on "Role of Students in Conservation of Environment" on 19.9.91 in **Miranda House**, University of Delhi.
 - Poster Session on "Understanding Our Environment" on December 20 & 21, 1990 in **Gargi College**, University of Delhi.
 - Organized a two-day orientation Programme in Gargi College for faculty members.
- 2. Participated** in many seminars, symposia and workshops organized in Gargi College, Achrya Narender Dev College, Daulat Ram College, KiroriMal College, Miranda House, CPDHE, CSEC and other academic institutions since 1983.

ONLINE WORKSHOPS:

Conducted two on-line workshops (10-Days each) on **Development of Open Educational Resources and e-learning** in May (Workshop EL4C26 May 4-15, 2009) and June (Workshop EL4C27 June 1-12, 2009). The workshops were jointly facilitated by **Dr. Gita Mathur**, Botany Department, Gargi College, from India and **Ms. Nellie Deutsch**, an educationist from Canada. The workshops were attended by 102 participants from 26 countries the world over.

Conducted an on-line workshop (10-Days duration) on **Wiki Skills and Collaborative Development of e-resources** in June (Workshop EL4C40 June 7-18, 2010) . The workshop was jointly facilitated by **Dr. Gita Mathur**, Botany Department, Gargi College, from India and Ms. **Patricia Schlicht**, an educationist from Canada. The workshops were attended by 66 participants from 14 countries the world over.

Extention Work:

OTHER UNIVERSITIES / INSTITUTIONS

- **International Body**

INDO-FRENCH CENTRE FOR THE PROMOTION OF ADVANCED RESEARCH

(IFCPAR), India Habitat Centre, Lodhi Road, New Delhi.

Evaluation of collaborative research project in January 2000

- **Indian Universities**

KUVEMPU UNIVERSITY

Botany Coordinator for M.Sc. Practical classes and examination started in May, 2004 in Gargi College.

IGNOU

- Duly appointed **Academic Councilor** w.e.f. 1.8. 1988 to 1998 at Ram Lal Anand College, University of Delhi.
- Conducted practical classes in Botany at Gargi Centre for IGNOU
- Examiner for theory examinations in Botany.

DAYALBAGH UNIVERSITY, AGRA

Have been an external examiner for B.Sc. Botany Honours' practical examinations three times. Examinations held on 2.12.89, 1.5.90 and 13.2.91.

- **Schools**

Fr. Agnel School

Delivered a lecture entitled "The Beautiful World of Flowers".

Judge for "Eco Show" at the Junior Agnel Talent Fest'2003 held on August 25, 2003.

DAV Schools

National Teachers' Training Workshop for Biology Teachers for classes X to XII, from Northern Indian region. The workshop was organized by DAV Sangathan in collaboration with NCERT. Delivered a series of lectures & conducted 'Problem Solving Sessions' for the school teachers in October 1992.

APJ School

Inaugural lecture (and slide show) of APJ School Environment Club, APJ School, Sheikh Sarai, New Delhi, Lecture entitled "Our Beautiful Environment - Let us save it" on 8.11.1992.

Dev Samaj School

Inaugural lecture of NSS programme in Dev Samaj School, New Delhi on "Conserve the Environment", in December 1991.

My Interests: Botanical and Microphotography, integrating technology in regular teaching, developing open educational resources, ICT enhanced and blended teaching and inspiring students into research and technical writing.