




Faculty Details, Gargi College Website

Title	DR.	First Name	GITA	Last Name	MATHUR	
Designation	ASSOCIATE PROFESSOR OF BOTANY					
Phone No Office	011 26494544					
Email	gita.mathur@gmail.com					
Web-Page	http://www.wikieducator.org/User:Gita_Mathur					
Educational Qualifications						
Degree	Institution				Year	
Higher Secondary	St.Thomas' Girls Higher Secondary School, New Delhi				1971	
B.Sc. Honours Botany	University of Delhi				1974	
M.Sc. Botany	University of Delhi				1976	
Ph.D. Botany	University of Delhi				1983	
Career Profile						
<p>TEACHING AND RESEARCH EXPERIENCE: 34 years (Since July 1983)</p> <p>Associate Professor, Department of Botany, Gargi College, 1997- till date</p> <p>Senior Lecturer, Department of Botany, Gargi College, 1993-1997</p> <p>Lecturer, Permanent, Department of Botany, Gargi College, 1990-1993</p> <p>Lecturer, Temporary, Department of Botany, Gargi College, 1986-1990</p> <p>Lecturer, Temporary, Department of Botany, Deshbandhu College, 1984-1986</p> <p>Lecturer, Temporary(part-time), Department of Botany, Gargi College, 1983-1984</p> <p>Lecturer, ad hoc, Department of Botany, Miranda House, September, 1977</p>						
Administrative Assignments						
<ul style="list-style-type: none"> • 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

Areas of Interest / Specialization

Research– Anthecology and Plant Reproductive Biology

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*.

TEACHING– Plant Ecology, Archegoniatas and Plant Resource Utilization

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

Research Guidance

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)

Recent Sabbatical Projects

SABBATICAL RESEARCH PROJECT 1: January 4, 2016 to May 31, 2016

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

SABBATICAL RESEARCH PROJECT 2: January 1, 2018 to May 19, 2018

Title: Advanced Studies on some unique trees growing in Delhi and Bangalore.

Recent Publications

PUBLICATIONS:

Number of Technical Papers and Botanical articles published in International and National journals:29

BOOK EDITORIAL BOARD:

Member Editorial Board of book published by Gargi College. "Quest For Excellence: Policy and Practice" 2013, Published by Words Worth 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

eManaswini Volume 3, 2016

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

Anthesis Volume 10, 2016

Contributed many articles to the above.

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, Ahmadabad 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.

Conference Organization/ Presentations

COURSES, SEMINARS, SYMPOSIA AND WORKSHOPS

ORGANIZING COMMITTEE MEMBER

- On organizing committee of a Workshop on "Why to Grow and How to Multiply Plants", organized by Department of Botany Gargi College, New Delhi, held on September 26, 2017. Also delivered a lecture entitled "Urban Floriculture".
- On organizing committee of a Summer workshop May 31, 2014 on Interdisciplinary Sciences, held at Department of Botany Gargi College, New Delhi.
- On organizing committee of a two days orientation programme on Role of e-Technology in Academic research and Teaching- Learning Interactions, held at Gargi College in collaboration with Computer Center, University of Delhi, on 8-9 December 2011.
- On organizing committee of UGC-CPE Botany Faculty Improvement Programme on "Recent Advances in Molecular Biology and Bioinformatics" held in Gargi College on September 29, 2005 in Gargi College, on September 30, 2005 in Department of Molecular Biology, South Campus, Delhi University and on October 1, 2005 in National Institute of Immunology, New Delhi.

CONVENER OF THE FOLLOWING

- Convener and Organizer of a workshop on E-Resources on ICT enhanced Learning Methodologies for Biologists for Students of Sciences from Gargi College on June 10 and 11, 2014.
- Organized a counseling session on "Future educational and carrier options for Science Students" March 6, 2013, where an old student Dr. Monalisa Sen made a presentation and held discussions with science students.
- 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, Ahmadabad. 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.

PARTICIPATED IN SEMINARS, SYMPOSIA AND WORKSHOPS

Participated in many seminars, symposia and workshops organized in Gargi College, Khalsa College, Acharya Narender Dev College, Daulat Ram College, Kirori Mal College, Miranda House, CPDHE, CSEC and other academic institutions since 1983.

(More than 40, email me for details)

INTERNATIONAL AND NATIONAL WORKSHOPS / SEMINARS

- XVI International Botanical Congress, St. Louis, Missouri, USA. August, 1-7, 1999. Presented a paper entitled "Reproductive Biology and Anthecology of Eggplant – *Solanum melongena*."
- National Seminar on "Environmental Education at College Level" organized by The Centre for Environmental Education, Ahmedabad in April 1994.
- Symposium on "Reproductive Biology" organized by Department of Science and Technology at Jammu on 22 - 24 March 1994.
- Asian Workshop on "Global Change Education" organized by International Council of Scientific Unions (ICSU) and Committee on teaching of Science (CTS), hosted by Committee on Science and Technology Education in Developing Countries (COSTED), Asia Regional Office, Madras and supported by UNESCO and British Council, from November 22 to 26, 1993.
- International Conference on 'Research in Plant Sciences and its Relevance to Future' organized by UGC Centre of Advanced Study in Botany, Department of Botany, University of Delhi, from March 7-11, 1988.
- National Symposium on 'Biology of Reproduction in Plants' organized by UGC Centre of Advanced Study in Botany, Department of Botany, University of Delhi, from December 1-5, 1981.

ONLINE WORKSHOPS CONDUCTED

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 S Samaj School, New Delhi on "Conserve the Environment", in December 1991.

Research Projects (Major Grants/Research Collaboration)

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.

Awards and Distinctions

- 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



Association With Professional Bodies

- Life Member, Delhi University Botanical Society
- Member, Gargi College Botanical Society
- Member, American Botanical Council
- Member, Interim Advisory Board of WikiEducator, India

Other Activities

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 1996.

- 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.
- Counseling 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 eManaswanifor 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)

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).
- Convener (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.
- Convener of Botany Liberal Option Group for Biology Liberal option papers for restructuring of B.El.Ed course, January 2016 onwards.

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.