




University of Delhi

FACULTY DETAIL PERFORMA (2017-2022)



NAME OF FACULTY

Name	Dr Meenakshi Sharma	
Designation	Assistant Professor	
Department	Botany (life sciences)	
E-mail	msharma@dr.du.ac.in	
Address	-	

Educational Qualification: B.Sc., M. Sc., M. Phil., Ph. D., PDF

Degree	Institution	Year
Bachelor of Science (Life Sciences)	CCS University, Meerut	1999
Masters in Science (Botany)	CCS University, Meerut	2001
Master in Philosophy (Microbiology)	University of Delhi, Delhi	2003
Doctorate in Philosophy (Microbiology)	University of Delhi, Delhi	2010
PDF (Microbiology)	CSIR-Institute of Genomics & Integrative Biology, Delhi	2011

Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
Project Associate	CSIR-Institute of Genomics & Integrative Biology, Delhi	2011-2012	Project Based

Full time Teaching Experience

S.no	Designation	Institution	Time Period	Nature of Appointment
1	Assistant Professor	Daulat Ram College, University of Delhi	July, 2012-Till date	Ad-hoc
2	Assistant Professor	ANDC, University of Delhi	2012	Ad-hoc
3	Assistant Professor	Miranda House College, University of Delhi	2012	Guest

Administrative Assignments

Name of Institute	Designation	Status	Time period	Experience(year)
DRC, University of Delhi	Film and Photography Society	Co-Convener	2022-2023	1
DRC, University of Delhi	Botanical Society Vasundhara	Zurich Member	2021	1
DRC, University of Delhi	WDC	Zurich Member	2020	1
Maitreyi College, DU	Fine Art Society	Zurich Member	2020	1

DRC, University of Delhi	Botanical Society Vasundhara	Convener and Staff advisor	2018-2021	2
Daulat Ram college, University of Delhi	Placement Cell	Co-Convener	2018-2020	2
Daulat Ram College, University of Delhi	Eco-Club Society	Member	2018-2021	2
Daulat Ram College, University of Delhi	Eco-Club Society	Zurich Member	2018-2019	2
DRC, University of Delhi	Student advisory Board (SAB)	Team Member	2016-2017	1
Daulat Ram College, University of Delhi	Film and Photography Society	Member	2015-2018	4
Daulat Ram College, University of Delhi	Fine Art Society	Member	2013-2015	2

Areas of Interest in Teaching:

Cell And Molecular Biology, Biochemistry, Bioinformatics, Biostatistics, Genetics and Genomics, Microbiology, Analytical Techniques, Plant Sciences

Subjects Taught

S.No	Course	Subject Taught	Semester	Year
1.	B.Sc (H) Botany III year	Analytical Techniques, Bioinformatics, Biostatistics, Industrial Microbiology, Plant Physiology, Plant Biotechnology	V,VI	2012-till date
2.	B.Sc (H) Botany II year	Molecular Biology and Genetics	III, IV	2012-till date
2.	B.Sc LifeSciences	Genetics and Genomics, Plant Physiology	V, VI	2012 till date
3.	B.Sc Biochemistry+ Zoology	Environmental Studies	II	2014, 2016, 2018, 2021

Research Guidance: NA

9. Details of refresher/orientation course/research methodology/workshop/syllabus up-gradation/teaching –learning-evaluation/technology programmes/Faculty Development Programme

S. N o.	Details	Place	Period		Year	Sponsoring/Organising Agency
			From	To		
1	One week (Online) Faculty Development Programme on	Center for Bioinformatics, Computational and Systems Biology, Deshbandhu College,	02 nd - August	07 th August, 2021	2021	Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi
2	National Webinar	Deen Dayal Upadhyaya College, DU	24 th -	25 th September	2021	Botany Department, Deen Dayal Upadhyaya College
1	National Workshop	Acharya Narendra dev College	1 st	3 rd March	2021	ANDC and IGIB DBT Under the Aegis of Star College Scheme

2	Orientation Programme for Faculty	Teaching Learning Centre, Ramanujan College University of Delhi	26 th June	24 th July	2020	Teaching Learning Centre, Ramanujan College Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching
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Resource Person (Conference/seminar/ workshop/training Programme/ educational trips)

S.No	Type of Event	Name of Event	Venue	Date of Event (Start Date-End Date)	State your role: Convener /Member organizing committee/ Speaker/ Coordinator	Duration (Days)	participant
1	National Webinar	Intellectual Property Right: Issues and Challenges"	Deen Dayal Upadhyaya College DU	24 th -25 th September, 2021	Participant	2	>150
2	International Conference	Effective Strategies for Biodiversity Conservation	DRC, University of Delhi	23 rd -24 th March, 2021	Convener	2	135
3	National Webinar	Future Prospects and career options in Data science	DRC, University of Delhi	29 th January, 2021	Convener	1	125
4	SDP	"Basics of Online Class tools"	DRC, University of Delhi	17 th -19 th , December, 2021	Convener and Resource Person		100
5	SDP	"Basics of Online Class tools"	DRC, University of Delhi	17 th -19 th August, 2021	Convener and Resource Person		100
6	Faculty Induction Programme	FDP	Faculty Induction Programme	24 th June-24 th July, 2020	Participant	1	250
7	National Webinar	Biodiversity and Conservation	DRC, University of Delhi	8 th June, 2020	Co-Convener	1	150
8	Workshop	Bioinformatics and Computational tools for Botanical Studies	Department of Botany, Daulat Ram College University of Delhi	6 th -7 th Feb, 2020	Co-Convener	2	20
9	International Webinar	Nanomaterials Applications	Centre for Nanotechnology Research (CNR), Vellore Institute of	17 th – 19 th June, 2020	Participant	3	150

			Technology, Vellore				
10	In-House Skill Development Programme (Under IQAC)	Basics of Bioinformatics: Theory & Practice	DRC, University of Delhi	11 th - 17 th July, 2019	Convener & Resource Person	7	35
11	Workshop	"DNA Barcoding and Metagenomics"	Kirori Mal College, University of Delhi	19 th & 20 th September 2019.	Participant	7	35
12	Placement Cell, Incrementum 2.0 Incrementum 3.0	Internship and Career fair Internship and Career fair	DRC, University of Delhi	5 th Feb, 2019 12 th Feb, 2020	Co-Convener Co-Convener	1 1	1500 >1800
13	Faculty Development Programme (Under IQAC)	Industrial and Environmental Microbiology	DRC University of Delhi	19 th -20 th March, 2018	Organizing Member	2	20
14	Workshop (Under IQAC)	Bonsai Making	MHC University of Delhi	22 nd , March, 2018	Participant	1	25
15	Inspire Science Camp	Innovation in Science Pursuit for Inspired Research	DBT, DRC, Delhi University	17 th -21 st , Dec, 2018	School outreach/ Resource person	5	150
16	In-House Skill Development Programme (Under IQAC)	Food adulteration and security	DRC, University of Delhi	3 rd -14 th July, 2017	Co-convener and Resource person	12	30
17	Workshop	Digital Marketing	Placement Cell, DRC, University of Delhi	29 th -30 th July, 2017	Co-Convener	2	30
18	Faculty Development Programme (Under IQAC)	From chemistry of life to chemistry of disease: Understanding Clinical Biochemistry UCB-17"	DRC, DRC University of Delhi	15 th June-22 nd June, 2017	Participant	7	25
19	Workshop (Under IQAC)	Biostatistics	Zakir Husain Delhi College, University of Delhi	9 th -10 th March, 2017	Participant	2	20

National and International Academic Collaboration:

- Department of Geology and Pedology, Forestry and Wood Technology, Mendel university In Brno, Brno Czech Republic. 2017-Till date
- Institute of Chemistry and Technology of Environmental Protection, Faculty of Chemistry, Brno, University of Technology, Brno, Czech Republic 2019 till date
- Department of Botany, Govt. Degree College Nainidanda, Pauri Garhwal, Uttarakhand, India

Research Publications:

INTERNATIONAL:

S.No	Title of the paper	Journal Name	Year	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No	ISSN No	Citation
1.	Rhizosphere provides a new paradigm on the prevalence of lysogeny in the environment	Soil and Tillage Research	2019	5.01	yes	yes	104368	4
2.	How enzymes are adsorbed on soil solid phase and factors limiting its activity: A review.	International Agrophysics	2017	2.03	yes	yes	2300-8725	30
3.	"Impact of Microbial Diversity on Environmental Stability"	Green Chemistry Springer	2016	-	no	no	978-9811083891.	15
4	Increased iron stress resilience of maize through inoculation of siderophore producing <i>Arthrobacter globiformis</i> from mine.	Journal of Basic Microbiology	2015	4.5	yes	yes	1521-4028	15
5	Functionally diverse rhizobacteria of <i>Saccharum munja</i> (a native wild grass) Colonizing abandoned morrum mine in Aravalli hills (Delhi).	Plant and Soil	2011	4.08	Yes	Yes	0032-079	25
6	Screening of a soil bacterium for biological control of pathogenic fungi	Journal of Plant Development sciences	2010	0.8	yes	yes	0974-6382	2
7	Evaluation of functional diversity in rhizobacterial taxa of a wild grass (<i>Saccharum ravennae</i>) colonizing abandoned fly ash dumps of Delhi urban ecosystem.	Soil biology and Biochemistry	2009	5.09	yes	yes	0038-0717	50
8	Unexplored ecological significance of <i>Saccharum munja</i> .	IUCN	2005	1.5	yes	yes	1016-927X	5

Book Chapters/Articles published:

S.No	Author	Name of the paper	Publisher	Year	Authored /Edited	ISBN No	Citation
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1	Meenakshi Sharma, Rahul Datta, Vivek Kumar Kedia and Martin Brtnicky	Microbial Potential for Carbon Fixation and Stabilization	Springer Nature	2021	Author	978-981-33-6764-7	1
2	Jitka Prichystalova, Jiri Holatko, Tereza Hammerschmiedt, Rahul Datta, Ram Swaroop Meena,... Meenakshi Sharma, Martin Brtnicky	Biochar Role in Soil Carbon Stabilization and Crop Productivity	Springer Nature	2021	Author	978-981-33-6765-4	1
3	Vibha Gulyani Checker and Meenakshi Sharma	Molecular Signaling during Insect Plant Interaction	Springer Nature	2020	Author	978-981-15-2466-0	2

PRACTICAL MANUALS AND MAGAZINES EDITED:

1. Author of the manual “**Basics of Online Class tools**” for graduate and post graduate students 2020.
2. Author of the Practical manual “**Basics of Bioinformatics: Theory & Practice**” for post graduate and research students 2019.
3. Editor of “**LIANA**” 2017 and 2019-2020, magazine of Botanical Society of Daulat Ram College, University of Delhi.
4. Editor of SDP manual “ Food adulteration and security” organised by Daulat Ram College 3rd-14th July 2017 University of Delhi.

Conference Proceedings publication

S.no	Title of the Paper	Year of Publication	Name of conference	Venue of conference	ISBN No	Citation
1	Microbial Based Bio-Fuel	2019	Environment and Sustainable Development-New Perspectives	DRC, University of Delhi	ISBN: 978-81-937466-2-2	2
2	Earth Bio-genome Project	2019	Environment and Sustainable Development-New Perspectives	DRC, University of Delhi	ISBN: 978-81-937466-2-2	-
3	Botanical Gardens: Road leading to Conservation, Research and Public Awareness	2019	Environment and Sustainable Development-New Perspectives	DRC, University of Delhi	ISBN: 978-81-937466-2-2	-
4	Hindon Once A Lifeline, Now A Dead River: A Mini Review”	2018	Innovations in science in Emerging Challenges in Health and Environment	University of Delhi	9788192981246.	2
5	Role of microbes in pollution control and agriculture	2017	Environmental concerns of 21 st century: India and Global Context	University of Delhi	978-93-83281-65-7	3
6	Air Pollution and Life in Delhi City	2016	National Seminar on Water and Air Quality in Urban Ecosystem	University of Delhi	-	-

Conference Attended and Paper presented: (2016-2021)

S.no	International/ National	Name of conference	Venue of conference	Date	Paper Presented on
1	International	"Proteomics, Transcriptomics and Molecular Drug Design: An integrated omics Approach	Plant Molecular Genetics Laboratory, Department of Botany, University of Delhi	25 th -27 th May, 2022	Poster Presented on "Advance Biotechnologies for Biofuel Production and Country Economic Growth"
2	National and International	➤ 20 Online Webinars	Google Meet and Zoom	March 2019-September 2021	Participated
3	National	"Innovations in science in Emerging Challenges in Health and Environment (NSHE-2018)	University of Delhi	20 March, 2018.	"Hindon Once A Lifeline, Now A Dead River:
4	National	A Paradigm Shift Towards Empowerment of women	Kalindi College. University of Delhi.	February 3-4 th 2017.	Microbes: The Next-Generation Mini Factories"
5	International	"Green Chemistry in Environmental Sustainability and Chemical Education"	Daulat Ram College University of Delhi,.	November 17 th -18 th 2016	"Role of Air Purifying Plant to Combat Pollution"
6	International	"Green Chemistry in Environmental Sustainability and Chemical Education"	Daulat Ram College University of Delhi,.	November 17 th -18 th 2016	"Microbes: The Next-Generation Biofuel Producers"
7	National	"Water and Air Quality in Urban Ecosystem"	Shivaji College University of Delhi	March 22 nd -23 rd 2016.	"Air pollution and life in Delhi city"
8	National	Environmental concerns of 21 st century: Indian and Global context	Jakir Husain Delhi College. University of Delhi,	March 21 st - 22 nd , 2016.	"Role of Microbes in Pollution Control and Agriculture"
9	International	Public Health: Issues, Challenges, Opportunities, Prevention and Awareness	Daulat Ram College. University of Delhi- 110007	January 15 th -16 th 2016.	"Mining of Unexplored Microbial Diversity for the Health Benefits"
10	National	Plant Science Research: Looking Beyond 21 st Century for Environmental and Agricultural Revolution	Department of Botany, University of Delhi, Delhi- 110007.	February 5 th -7 th , 2016.	"Exploration of antimicrobial Potential of Culturable Bacterial Diversity"

ARTICLE PRINTED IN MANUALS/MAGAZINE:

1. Meenakshi Sharma and Nidhi Gautam (2018). Published article on "**Hindon River**" in Botanical Society Magazine LIANA of Department of Botany. Daulat Ram College. University of Delhi. 2017-2018.

2. Meenakshi Sharma (2017). Two articles were published on food adulteration in workshop manual “**Food adulteration and security**” organized by Department of Botany. Daulat Ram College. University of Delhi. From 3rd to 14th July, 2017.

Awards Won

S.No	Name of Award	Awarding Agency	Government/ NGO/ International/ Private	Recognition area	Date of award (DDMMYY)	Type of Honor received
1	First Prize	Graphic Era University	Private	Research	5 th June, 2011	Oral Presentation
2	Third Prize	Deen Dyal Upadhaya College, University of Delhi.	Government	Research	21 st Feb, 2015	Poster Presentation
3	First Report on Iron Chelation Capacity of <i>Arthrobacter globiformis</i>	Elsevier	International	Research	June, 2015	Research Paper

Membership of Professional Bodies

S.No	Type of Membership	Organization	Year of Membership(Start Date)
1	Life Time Membership	American Society for Microbiology	ID: 56486459, division: Q, 2009
2	Life Time Membership	Soil biology and Biochemistry	2009- Till date
3	Life Time Membership	Journal of Plant Development Sciences	2010-Till date

College/University/Institution Work:

1. Theory and Practical Examination Papers of B.Sc. (Hons) and B.Sc. Life Science
2. Evaluation of Theory and Practical Examination Paper of B.Sc. (Hons) and B.Sc. Life Science 2012-till date
3. External/ Internal Examiner for Annual/ Semester Practical Examinations of B.Sc. (Hons) and B.Sc. Life Science 2012-till date