




## Faculty Details Proforma For College Web-site



Title	Dr.	First Name	Madhu	Last Name		Photograph
<b>Designation</b>						
<b>Address</b>					<b>Daulat Ram College, 4 Patel Marg , Delhi-110007</b>	
<b>Phone No. Office</b>						
<b>Residence</b>						
<b>Mobile No.</b>					<b>9810705750</b>	
<b>Email - ID</b>					<b>madhu@dr.du.ac.in</b>	
<b>Web Page</b>						
<b>Educational Qualification</b>						
<b>Degree</b>		<b>Institution</b>			<b>Year</b>	
Ph.D.		Zoology Department, University of Delhi			2013	
M.Phil.		Zoology Department, University of Delhi			2007	
M.Sc.		Miranda House, University of Delhi			2005	
B.Sc.		Miranda House, University of Delhi			2002	
<b>Career Profile</b>						
S.no	Designation	Institution	Time Period	Nature of Appointment		
1.	Assistant Professor	Shivaji College	July, 2013-Nov, 2013	Ad-hoc		
2.	Assistant Professor	Daulat Ram College	Jan, 2014-Oct 2015	Ad-hoc		
3.	Assistant Professor	Daulat Ram College	Oct, 2015-Till date	Permanent		
<b>Administrative Assignments</b>						
Name of Institute	Designation	Status	Time period	Experience		
Daulat Ram College	Undergraduate Admission, Core Committee Member	Completed	2023-24	1 year		
Daulat Ram College	Convener, Zoological	Completed	2023-24	1 year		

	Society, Koshika			
Daulat Ram College	Member, Maintenance and Development Committee	Completed	2023-24	1 Year
Daulat Ram College	Purchase Committee member	Completed	2022-23	1 Year
Zoology Department	Departmental Research Committee Member	Ongoing	2022-24	2 Year
Daulat Ram College	Prize Committee Member	Completed	2022-23	1 Year
Daulat Ram College	Maintenance and Development committee Co- convener	Completed	2022-23	1 Year
Daulat Ram College	Techer In-charge Zoology Department	Completed	2022-23	1 Year
Daulat Ram College	Screening Committee Member (Chemistry and Economics)	Completed	2021-23	2 Years
Daulat Ram College	Co-Ordinator Drosophila Resource Centre	Ongoing	2021-Onward	3 Years
Daulat Ram College	Information Bulletins 21-22, Editorial Team member	Completed	2021-22	1 Year
Daulat Ram College	TPC Co- convener	Completed	2021-22	1 Year
Daulat Ram College	GB member as Junior Teacher Representative	Completed	2021-22	1 Year
Daulat Ram College	Life Science Admission Convener	Completed	2020-21	1 Year
Daulat Ram College	Life Science Association Convener	Completed	2020-21	1 Year
Daulat Ram College	Undergraduate Admission, Core Committee Member	Completed	2016-17	1 Year

**Areas of Interest / Specialization**

Area of Interest:  
 Biotechnology, Biochemistry, Physiology, and Molecular Biology  
 Specialisation:  
 M.Sc.: Cell Biology  
 Ph.D.: Pesticide Toxicology

### Subjects Taught

1	B.Sc. Zoo hons	Physiology: Controlling and Co-ordinating System	3	2
1	B.Sc. Zoo hons	Physiology: Life Sustaining System	4	2
2	B.Sc. Zoo hons	Biochemistry	4	2
3	B.Sc. Hons	Human Physiology	2	1
4.	B.Sc. Zoology Hons.	Molecular Biology	5	3
5.	B.Sc. Zoology Hons.	Animal Biotechnology	6	3
6.	B.Sc. Life Science	Animal Cell Biotechnology	5	3
7.	B.Sc. Life Science	Physiology and Biochemistry	3	2
8.	B.Sc. Life Science	Medical Diagnostics	5	3
9.	B.Sc. Life Sc.	Developmental Biology and Comparative anatomy of Vertebrates	2	1

### Research Guidance

### Publications Profile

1. Singh M. and Singh D.K. (2013). Biodegradation of Endosulfan in Broth Medium and in Soil Microcosm by *Klebsiella* sp. M3. Bulletin of Environmental Contamination and Toxicology. DOI 10.1007/s00128-013-1168-3. ISSN: 007-4861.
2. Singh M. and Singh D.K. (2013). Endosulfan induced alteration in bacterial protein profile and RNA yield of

3. Chitra Bhasin<sup>1\*</sup>, Padmshree Mudgal<sup>2\*</sup>, Adita Joshi<sup>4,5\*</sup>, Anita Garg Mangla<sup>2</sup>, Madhu<sup>1</sup>, Varsha Singh<sup>2</sup>, Sakshi Jain<sup>2</sup>, Kritika Sharma<sup>2</sup>, Kirti Saluja<sup>2</sup>, Yogita Kapoor<sup>2</sup>, Priyanka Kandola<sup>1</sup>, Maniki Mathur<sup>1</sup>, Nikita Khatri<sup>1</sup>, Alisha Arora<sup>1</sup>, Simran Motwani<sup>2</sup>, Sakshi Jain<sup>2</sup>, Arushi Taneja<sup>2</sup>, Surbhi Chauhan<sup>2</sup>, Kanika Arora<sup>3</sup>, Surbhi Pandey<sup>3</sup>, Ritika Chaudhary<sup>3</sup>. (2016). Zebrafish Early Stage Developmental Defects as Indicator of Site Specific Water Composition of River Yamuna. DU Journal of Undergraduate Research and Innovation. Volume 2, Issue 1 pp 40-55.
4. Marwah, R., Jain, A., Madhu, & Sharma, S. (2024). Sugar, Methotrexate and the Herbal Shield: Unveiling *Tinospora cordifolia*'s Reproductive Safeguard in *Drosophila*. IJIRMF, 10(9), 15–23. <https://doi.org/10.2015/IJIRMF/202409003>
5. Madhu (2024), Study of Polymerase Chain Reaction, Chapter in Book Practical Aspect of Animal Biotechnology and Immunology. ISBN No.9789359198422.

### Conference Organization / Presentation

S.No.	Year	Details	Place	Period		Sponsoring/Organising Agency
				From	To	
1.	2022	In-House Skill Development Program <i>Under IQAC</i> On Enhancing Learning Through ICT Tools	Online	26 <sup>th</sup> Nov, 2022	27 <sup>th</sup> Nov, 2022	Zoology Department. DRC, DU
2.	2023	Workshop on Tools and Techniques for maintenance of <i>Drosophila</i>	Zoology Department, Daulat Ram College	26 <sup>th</sup> May, 2023	30 <sup>th</sup> May, 2023	Zoology Department, Daulat Ram College, University of Delhi
3.	2020	In-House Skill Development Workshop <i>Under IQAC</i> On Enhancing Learning Through ICT Tools	Online	19th August, 2020		Life Science Association, DRC, DU
4.	2020	Online In House Skill Development Programme on Enhancing E-Learning Through ICT Tools	Online	17th Dec, 2020	19th Dec, 2020	Life Science Association, DRC, DU

<b>Research Projects (Major Grants/Research Collaboration)</b>						
<b>Awards and Distinctions</b>						
<b>Association with Professional Bodies</b>						
<b>Other Activities</b>						

**List of FDP and Refreshers courses attended:**

S.No.	Details	Place	Period		Year	Sponsoring/Organising Agency
			From	To		
1.	Syllabus Upgradation	Zoology Department, DU	27 <sup>th</sup> May	30 <sup>th</sup> May	2022	Delhi University
2.	Refresher Course	Online	15 <sup>th</sup> Dec	29 <sup>th</sup> Dec	2021	TLC, Ramanujan College, DU in collaboration with PSGR Krishnammal College of Women, Zoology Department, Coimbatore, Tamil Nadu under aegis of PMMMNMTT
3.	FDP on “Wildlife Conservation Management”.	Online	4 <sup>th</sup> Oct	9 <sup>th</sup> Oct	2021	Mahatma Hansraj Faculty Development Centre, Govt of India under PMMMNMTT
4..	FDP on Assessment and Accreditation in Higher Education	Online	14 <sup>th</sup> July	20 <sup>th</sup> July	2021	SGTB Khalsa College, under PMMMNMTT
5.	E-FDP Empowering Teaching Learning Process Using Google Classroom and Other ICT Tools: A	Online	21 <sup>st</sup> July	23 <sup>rd</sup> July	2020	Daulat Ram College, University of Delhi

	Comprehensive Practical approach					
6.	FDP on "Managing Online Classes and Co-creating	Online	25th July	10th August	2020	Teaching Learning Centre, Ramanujan College  University of Delhi
7.	FDP on "Advanced Pedagogical Techniques"	Online	20th Oct	5th Nov	2020	Teaching Learning Centre, Ramanujan College  University of Delhi  Under the aegis of  Ministry of human resource development  Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching
8.	FDP on Digital Tools For 21 <sup>st</sup> century Teachers	Online	10th Dec	23rd Dec	2020	Guru Angad Dev Teaching Learning centre a Centre of MOE under PMMMNMTT

### List of Events (Resource Person):

S.No.	Type of Event	Name of Event	Venue	Date of Event	State your role: Convener/Member organizing committee/ Speaker/ Coordinator	Duration of Activity	No of participant in the programme
1.	Workshop	Tools and Techniques	Zoology	26 <sup>th</sup> -to 30 <sup>th</sup> May,	Convener and	4 days	14

		for Drosophila Maintenance	Department, DRC	2023	Resource person		
2.	SDP	In House Skill Development Program for Hands on Training in Life Sc. Tools & Techniques	Zoology Department, DRC	13 <sup>th</sup> July to 19 <sup>th</sup> July, 2022	Resource Person	6 Days	35
3.	Workshop	Student Training Workshop on Research analysis: Tools and Techniques	Online	16 <sup>th</sup> -21 <sup>st</sup> Aug, 2021	Resource Person	6 Days	35