



Faculty Details Proforma

Title	Dr.	First Name	Jyotsna	Last Name	Singh	Photograph
Designation		Assistant Professor				
Address		Daulat Ram College, 4 Patel Marg , Delhi-110007				
Email- ID						
Web Page						
Educational Qualification Ph.D						
Degree		Institution				Year
Ph.D		Department of Zoology/DU				2015
M.Phil		Department of Zoology/DU				2010
M.Sc.		Miranda House/DU				2008
B.Sc.		Miranda House/DU				2006
Career Profile						
Dr. Jyotsna Singh has 10 years of teaching experience as Assistant Professor in Zoology and is currently working at Daulat Ram College, University of Delhi. She has an expertise in the area of entomology, particularly in insect behavior and insect pest management. She is proficient in rearing the cultures of insect pests like <i>Lipaphis erysimi</i>, <i>Aphis craccivora</i>, <i>Spodoptera litura</i>, <i>Helicoverpa armigera</i>, <i>Spilosoma obliqua</i>, <i>Nezara viridula</i> & <i>Plutella xylostella</i>. During her Ph.D., she has worked upon the Influence of temperature and need seed kernel extract on the biology of <i>Aphis craccivora</i> (Koch) and <i>Lipaphis erysimi</i> (Kaltenbach) (Hemiptera: Aphididae)” at the Insect Behavior Lab, Department of Zoology, D.U. She has sound knowledge about the development, orientation, feeding & oviposition techniques used in insect behavior bioassays. She was awarded Junior Research Fellowship (JRF) under CSIR Fellowship Scheme and qualified CSIR-NET as well.						
Administrative Assignments						
1. Convenor, Lifesciences admissions (2017-18) 2. Medical committee Incharge (2019-2023) 3. Co-Convenor, Astitva- Lifescience Association (2020-21) 4. Co-Coordinator for 1 week FDP on “Wildlife Conservation and Management” (2021-22) 5. Course Coordinator for SDP on “Enhancing Learning Through ICT Tools” (2020-21) 6. Coordinator for SDP on “Economic Importance and Management of Beneficial Insects” (2023-24) 7. Co- convenor, Pahal- Gender Champion Cell (2023-24) 8. Co-Convenor, Canteen Committee (2024-25) 9. Departmental Library member (2024-25) 10. Convenor, Canteen Committee (2025-26) 11. Convenor, Teaching Program Committee, TPC (2025-26) 12. Convenor, Koshika- Zoological Society/Association (2025-26) 13. Junior Teacher’s Representative/member in the Governing Body (2025-26)						

Areas of Interest/Specialization

- Animal behavior
- Entomology
- Insect behavior

Subjects Taught

S.no.	Course	Paper taught	Sem.	Year
1.	B.Sc. (H) Zoology CBCS	DSC-Animal Behavior and chronobiology	VI	3
2.	B.Sc. (H) Zoology CBCS	DSC- Non-Chordata-I	I	1
3.	B.Sc. (H) Zoology CBCS	DSC- Non-Chordata-II	II	1
4.	B.Sc. (H) Zoology CBCS	DSC- Cell Biology	III	2
5.	B.Sc. (H) Zoology CBCS	DSC- Molecular biology	IV	2
6.	B.Sc. (H) Zoology CBCS	GE-1-Insect Vector & Diseases	I	1
7.	B.Sc. Lifesciences	Molecular biology	IV	2
8.	B.Sc. (H) Zoology LOCF	GE3- Food, Nutrition & Health	III	2
9.	B.Sc. (H) Zoology LOCF	Research methodology	VI	3
10.	B.Sc. (H) Zoology LOCF	Reproductive biology	VI	3

11.	B.Sc. (H) Zoology LOCF	Wildlife conservation and management	VI	3
12.	B.Sc. (H) Zoology CBCS	Applied zoology	VI	3
13.	B.Sc. (H) Zoology NEP-UGCF	GE- Economic Zoology	II	1
14.	B.Sc. (H) Zoology NEP-UGCF	GE- Human Physiology	I	1
15.	B.Sc. (H) Zoology NEP-UGCF	DSE- Applied Entomology	IV	4
16.	B.Sc. (H) Zoology NEP-UGCF	GE3- Food, Nutrition & Health	II	1
17.	B.Sc. (H) Zoology NEP-UGCF	GE5- Concepts of Animal Behaviour	V	3
18.	B.Sc. (H) Zoology NEP-UGCF	GE4- Insect Vector & Diseases	IV	2

Research Guidance

- Guided 4th year (2025-26) student, Ms Neelima Bharti for the Dissertation Report entitled “Efficacy of *Tinospora cordifolia* (Giloy) against stored grain pests *Callosobruchus chinensis* (Pulse beetle)” .
- Guided 4th year (2025-26) student, Ms Sanya Bhatt for the Dissertation Report entitled “Role of plant based saponin in the control of stored grain pest *Callosobruchus chinensis*.”

Publications Profile

- Senrung, A., **Singh, J.**, Sharma, S., Bhutia, T.N. and Singh, A.K. “Effect of *Murraya koenigii* extracts on feeding and ovipositional response of *Spodoptera litura* (Fab.) (Lepidoptera: Noctuidae)”. Journal of Entomology and Zoology Studies. Vol 2: 27-31. 2014. ISSN# 2320-70782.
- **J. Singh**, A. Senrung, S. Sharma, T. N. Bhutia, M. R. Devi and A. K. Singh (2017). Influence of temperatures on the survival and development of cowpea aphid, *Aphis craccivora* (Hemiptera: Aphididae). Indian Journal of Entomology, 79 (1):111-114. 2017. ISSN 0367-8288.
- Monkeypox Endemic to Epidemic A review of the current scenario of Monkeypox disease outbreak. Dr. Meenakshi Thakur, Dr. Sushma Bhardwaj, **Dr. Jyotsna Singh**. © 2022 IJRTI | Volume 7, Issue 6 | ISSN: 2456-3315. Pg- 1964-69
- Three Years of Covid-19 – A Review on India’s Journey through Different Variants and Waves. Dr. Meenakshi Thakur, Dr. Sushma Bhardwaj, **Dr.Jyotsna Singh**, Ms.Anna Senrung, Dr. Jyoti Singh.© 2023 IJRTI | Volume 8, Issue 1 | ISSN: 2456-3315 IJRTI2301005 International Journal for Research Trends and Innovation (www.ijrti.org). pg-26 - 35
- S. P. Yadav Deen, Anupam Varshney Sharma, Priya Singh, Satish Ganta, P. R. Ragesh, Smriti Sharma, Tarkeshwar, Kapinder, **Jyotsna Singh**, Mayanglambam Rojina Devi & Sanjiv Mullick. Influence of age, diurnal cycle, and plant and non-plant surfaces on oviposition by *Spodoptera litura* (Fabricius) (Lepidoptera: Noctuidae). *Int J Trop Insect Sci* **43**, 1553–1561 (2023). <https://doi.org/10.1007/s42690-023-01079-3>

- Sharma, S., Das, A., **Singh, J.**, Sharma, P., Singh, P., & Mullick, S. (2024). Biology and Lifetable of Diamond Back Moth [*Plutella xylostella* (L)] on Cruciferous Crops. *Indian Journal of Entomology*, 87(4), 854–860. <https://doi.org/10.55446/IJE.2024.2387>

Book chapters

- Dr. Smriti Sharma and **Dr. Jyotsna Singh**. Chapter: Microbes and Their Products in Sustainable Agriculture in the book ‘Microbial Products- Applications and Translational Trends’. November, 2022. ISBN: 9781032308203. CRC Press (Taylor and Francis)

E-chapters

- **Jyotsna Singh**, Anna Senrunga and Anjana Singha. “Extension of Mendelian Genetics” under MHRD Project “National Mission on Education Through ICT” authored for Institute of Life Long Learning (University of Delhi) (ISSN#2349-154X). 2015 https://docs.google.com/file/d/0B0Izh6GcIA_DdVF2azFsa0lkV3c/edit?pli=1
- Anjana Singha, **Jyotsna Singh** and Anna Senrunda. “Linkage and Crossing-over” MHRD Project “National Mission on Education Through ICT” authored for Institute of Life Long Learning (University of Delhi) (ISSN#2349-154X). 2015. https://drive.google.com/file/d/0B0Izh6GcIA_DTWdJZ0xHNjRRRemM/view?pli=1
- Anna Senrunga, **Jyotsna Singh** and Anjana Singha. “Morphology and Physiology of Paramecium” under Zoology Course Content authored for Institute of Life Long Learning (University of Delhi) (ISSN#2349-154X). 2015. https://drive.google.com/file/d/0B0Izh6GcIA_DaE03TFNQQUtLdjg/edit?pli=1
- **Jyotsna Singh**. Unit-5 Endopterygote Insects in the **Block-2 Insect Taxonomy-II** authored for the post graduate course **MZOE-004 Insect Taxonomy and Morphology** under egyankosh by Indira Gandhi National Open University, New Delhi . (2025) <https://egyankosh.ac.in/handle/123456789/118749>
- **Jyotsna Singh**. Expt-7: Study of Various Types of Nests of Social Insects and Expt-15: Methods of Rearing Insects in the Laboratory authored for the post graduate course **MZOL-004 Laboratory Course-IV** under egyankosh by Indira Gandhi National Open University, New Delhi. (2025) <https://egyankosh.ac.in/handle/123456789/117380>

Conference Organization/Presentation

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Association with Professional Bodies

Other Activities

Resource Person

Sno.	Resource person for	Year
1.	SDP on “Enhancing Learning Through ICT Tools”	2020-21
2.	SDP on “Enhancing Learning Through ICT Tools”	2021-22
3.	Student Training Workshop on Research Analysis: Tools and Techniques	2021-22
4.	SDP on Unveiling the Animal World in Behavioral way	2022-23
5.	SDP on “Enhancing Learning Through ICT Tools” for 1st year Lifesciences students	2023-24
6.	SDP on “Enhancing Learning Through ICT Tools” for 1st year Zoology students	2023-24
7.	SDP on “Lifestyle Disorders”	2023-24
8.	SDP on “Economic Importance and Management of Beneficial Insects”	2023-24