



**Contact Details:** 9999257213, 9873761548

**Academic Qualification:**

B.Sc. (H) Zoology, 2002, Kirori Mal College, University of Delhi

M.Sc. (Zoology), 2004, Kirori Mal College, University of Delhi

M.Phil. (Zoology), 2006, Department of Zoology, University of Delhi, Dissertation Title: **Effect of Chinaberry, *Melia azedarach* (L.), on certain behavioural responses of agricultural pests.**

Ph.D. (Zoology), 2013, Department of Zoology, University of Delhi, *Title of Ph.D. thesis: Behavioural and physiological responses of *Spilosoma* (Walker) (Lepidoptera: Arctiidae) towards Chinaberry, *Melia azedarach* (L.) (Meliaceae).*

**Positions Held:**

**Assistant Professor,**

Department of Animal Science (Zoology), School of Life Sciences, TAB, Shahpur, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh (January 2020-Till date).

**Assistant Professor,**

Department of Zoology, Kalindi College, University of Delhi, East Patel Nagar, Delhi-110008, (16/05/2014 to 14/01/2020).

**Assistant Professor (Ad-hoc),**

Department of Zoology, Deen Dayal Upadhyaya College, University of Delhi, Dwarka Sector-3, Delhi-110078, (24/07/2011 to 15/05/2014)

**Other Administrative positions held**

1. **Academic Co-ordinator**, Kalindi College, University of Delhi from January 2019-January 2020
2. **Public Information Officer (PIO)**, Kalindi College, University of Delhi
3. **Coordinator:** Internal Quality Assurance Cell (IQAC), Kalindi College, University of Delhi
4. **Deputy Coordinator:** Central Evaluation Centre (CEC), Kalindi College, University of Delhi (Nov/Dec, 2018, May/June 2019, Nov/Dec 2019-2020)
5. **Convener:** Admission Committee (Online) (2017-18,

2018-19), Kalindi College, University of Delhi

6. **Convener:** Student Management Software, Kalindi College, University of Delhi
7. **Convener:** Management Information System, Kalindi College, University of Delhi
8. **Member:** ARIIA Committee, Kalindi College, University of Delhi
9. **Member:** Prize committee "College Annual Day" (2017-18, 2018-19), Kalindi College, University of Delhi
10. **Member:** Research Fund Allocation Committee, Kalindi College, University of Delhi
11. **Member:** Women Development Cell, Kalindi College, University of Delhi
12. **Member:** Proctorial Board, Kalindi College, University of Delhi
13. **Member:** Purchase Committee, Kalindi College, University of Delhi
14. **Member:** Research Committee, Kalindi College, University of Delhi
15. **Member:** *Swachchhata Abhiyan* Committee, Kalindi College, University of Delhi
16. **Member:** Internal Quality Assurance Cell (IQAC), Kalindi College for National Assessment & Accreditation Council, NAAC (2014-18)
17. **Member:** Dissection Monitoring Committee (DMC), Department of Zoology, Kalindi College, University of Delhi (as internal member).
18. **Member:** Dissection Monitoring Committee (DMC), Department of Zoology, Dyal Singh College, University of Delhi (as External member).
19. **Member:** Dissection Monitoring Committee (DMC), Department of Zoology, Deen Dayal Upadhyaya College, University of Delhi (as External member).
20. **Member,** Admission Committee (SC/ST Student Admission Committee) (2015-16), Kalindi College, University of Delhi

**Specialisation:** Applied Entomology

**Research Interest:** Applied Entomology  
Insect-Plant Resistance  
Microbiology  
Bioinformatics

## Publications:

1. Kapinder, **Tarkeshwar**, Kumar, A. and Singh A.K, (2019). Orientation and behavioural responses of *Cotesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae) towards honey and sucrose. *International Journal of Zoological Investigations*. 5 (1): 33-48.
2. Kapinder, **Tarkeshwar** and Singh A.K, (2018). Effect of light intensity and nutritional value of food resources on flight response of adult parasitoid, *Cotesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae). *BioRxiv* 444224; (online) doi: <https://doi.org/10.1101/444224>
3. **Tarkeshwar**, Kapinder and Singh A.K. (2014). Insecticidal and antifeedant activity of *Melia azedarach* (L.) fruits on *Spilosoma obliqua* (Walker) (Lepidoptera: Arctiidae). *IOSR, Journal of Agriculture and veterinary Science*. Vol.7, 1(II): 15-20.
4. Kapinder, **Tarkeshwar** and Singh A.K. (2014). Role of vitamins on various biological aspects of an egg parasitoid, *Trichogramma chilonis* (Ishii) (Hymenoptera: Trichogrammatidae) on its laboratory host, *Corcyra cephalonica*. *IOSR, Journal of Agriculture and veterinary Science*. Vol.7, 1(II): 10-14.

## Book/Book Chapter:

1. Editing, Translation and Review of course material of School of Science, Indira Gandhi National Open University (IGNOU), New Delhi.  
Course: Biology, Subject: Biochemistry, Chapters: 03
  - i. Unit 9: Lipids - fi
  - ii. Unit 10: Membrane Lipid- 'fi fi
  - iii. Unit 11: Specialized Functions of Lipid- fi' ffl:qu'
2. Contributed a chapter on "**Gene Annotation Using of ORF Finder**" for workshop on "**Recent Trends in Bioinformatics**" held on 31<sup>st</sup> January, 2018 organised by Department of Botany at Deen Dayal Upadhyaya College, University of Delhi.
3. Author of e-quizzes on chapter '**Protein Metabolism**' of Chapter: **Biochemistry & Immunology, Unit: 3, Paper No. 18** for B.Sc. Life Science, in Institute of Lifelong Learning (ILL), University of Delhi. Delhi, 2014.
4. Tarkeshwar and Singh I.K. (2014). Chapter 4: **Biodiversity and its Conservation (Unit 4)**. In: "*Basic Environmental Studies*". Book Age Publications pp: 77—114. [ISBN: 978-93-83281-41-1]

## Undergraduate level

### Research Projects Completed/Ongoing:

1. Innovation Project KC-302 "**Microbial Fuel Cell: An efficient benign set up for electrochemical cell for**

**removing of impurities from laboratory generated waste water”**

Funded under Delhi University Innovation Projects Scheme 2015-16.

Number of students Involved in the project: 10 Students

2. Minor Project: **“To Develop Software for Online Assessment/Examination for College students as an ICT based teaching-learning practice”**

Funded by Kalindi College under Antardhwani : Good academic Practices 2015-16.

Number of students Involved in the project: 3 Students

3. Minor Project: **“Linking Urban Spaces with potential Carbon Stock”.**

**Inhouse Project Code: 27/2018**

Number of students Involved in the project: 12 Students

4. Minor Project : **“Reinventing the Butterfly Conservatory”.**

**Inhouse Project Code: 28/2018**

Number of students Involved in the project: 12 Students

5. Minor Project: **“Ayurveda: The Alternative System of Time Tested Medicine”.**

**Inhouse Project Code: 44/2018**

Number of students Involved in the project: 15 Students

6. Title of the Project: **“Student Wellness: Strategy for Student Success through Medical Diagnostics”.**

**Inhouse Project Code: 45/2018**

Number of students Involved in the project: 15 Students

**Postgraduate level**

7. Research Guidance for M.Sc. Dissertation in paper Forensic Science

Student Name: Mr. Harsh Tamta, M.Sc. Anthropology Part-II, Semester-IV ( for M.Sc. Dissertation in paper Forensic Science) for the partial fulfilment of the M.Sc. Degree.

**M.Phil. Supervised:** Nil

**Ph.D. Supervised:** Nil

**Ph.D. Supervising:Respecte** N.A.

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Kindly find the attachment and reply as soon as possible.

Participation in Seminars/Conferences:

**Member/Convener in Organising Committee**

1. Organised Seven-Day **Faculty Development Programme** on "**MOOC's, E-Content Development, Research Methodology and Statistical Tools on Open Education World**" from 17<sup>th</sup> December- 23<sup>rd</sup> December, 2019, in collaboration with Mahatma Hansraj Faculty Development Centre (MHRFDC), Hansraj College, University of Delhi, under the scheme, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, (PMMMNTT), Ministry of Human Resources Development, Govt. of India.
2. Member, Organised Committee of International Conference on "Changing Environment: Understanding the emerging challenges and their management strategies" held on 11-12 April 2019, organised by Department of Zoology, Kalindi college, University of Delhi
3. Member, Organising Committee of DBT sponsored workshop on "The Folscope" held on 10<sup>th</sup> April 2019, organised by Department of Zoology, Kalindi college, University of Delhi.
4. Member, Organising Committee for National Conference on "**Recent Trends and Advancements in Chemical Sciences**" organised by Department of Chemistry, University of Delhi and Bhaskaracharya College of Applied Sciences, University of Delhi in association with Society for Promotion of Education and Science (SPES), from 29-31 March 2019, held at University of Delhi.
5. Organized Campus Bird Count (The Bird Count India 2019) and Invited talk as part of the Great Backyard Bird Count Drive in association with Nature Science Initiative with B.Sc.(Honours) Zoology 1<sup>st</sup> and 2<sup>nd</sup> Year students. A pre-introductory talk was delivered by **Ms. Misha Bansal, project coordinator**, on the topic "**Introduction to Birding**" on **13<sup>th</sup> February 2019** and **Mr. Prasanna Gautam**, a very passionate bird enthusiast from the team joined and guided during **Kalindi College Campus Bird Count and Walk** on **15<sup>th</sup> February 2019**. In our campus walk we recorded 28 different bird species in our campus at different location.
6. Organised Three Day Training Workshop "**Entrepreneurship Awareness Camp for Science Student**" from 15-17 January 2019 under

“Entrepreneurship Development Programme” DST, Govt. of India, conducted by Department of Zoology in association with IQAC Kalindi College and National Institute for Entrepreneurship and Small Business Development (NIESBUD), Ministry of Skill Development, Govt. of India, at Kalindi College, University of Delhi.

7. Convener, NAAC sponsored National workshop on "**Skill Enhancement At Institutions of Higher Learning: Training Today and Tomorrow**" through IQAC, Library and Science Departments, Kalindi College from 7-13 January 2019, at Kalindi College, University of Delhi.
8. Organized workshop on “Skill Enhancement Workshop for Laboratory Staff” through IQAC and Science Departments, Kalindi College held on 13-14 March 2018, at Kalindi College, University of Delhi.

### **Paper presentation in Conference/Seminar**

1. Presented a paper entitled “Microbial Fuel Cell: An Efficient Benign Set Up for Electrochemical Cell for Removing of Impurities from Laboratory Generated Wastewater” in National Conference on “**Recent Trends and Advancements in Chemical Sciences**” held from 29-31 March 2019, organised by Department of Chemistry, University of Delhi and Bhaskaracharya College of Applied Sciences, University of Delhi in association with Society for Promotion of Education and Science (SPES) at University of Delhi.
2. Presented a paper entitled “Carbon Sequestration by urban green spaces” in National Conference on “**Recent Trends and Advancements in Chemical Sciences**” held from 29-31 March 2019, organised by Department of Chemistry, University of Delhi and Bhaskaracharya College of Applied Sciences, University of Delhi in association with Society for Promotion of Education and Science (SPES) at University of Delhi.
3. Presented a paper entitled “ $\text{CO}_2$  fixation by *Cotlesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae)” in National Seminar (  $\text{CO}_2$  ) on “ $\text{CO}_2$  fixation by *Cotlesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae)” held on 14-16 March, 2019 organised by Department of Zoology, Gargi college in association with Commission for Scientific and Technical Terminology, MHRD & Department of Higher Education at Gargi College University of Delhi.
4. Presented a paper entitled as "Influence of Light Intensity and Physiological Condition on flight response *Cotlesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae)" in the UGC sponsored National Conference on “Biotechnological Interventions in Agriculture, Health and Industry” held on 23-24 February, 2019, organized by Department of Biotechnology, Deen Dayal

Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh.

5. Presented a paper entitled as "Biodiversity conservation through Tagfalters: Role of Institution and Youth" in the International Conference on **"Advances in Biological and Environmental Research for Human welfare"** held on 16-18 November, 2018, organized by Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh.
6. Presented a paper entitled as "Orientation and Behavioural Responses of *Cotesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae) towards Honey and Sucrose" in the International Conference on **"Advances in Biological and Environmental Research for Human welfare"** held on 16-18 November, 2018, organized by Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh.
7. Presented a paper entitled as "Microbial Fuel Cell: A Greener Way for Removing of Impurities from Laboratory Generated Waste Water" in the International Conference on **"Advances in Biological and Environmental Research for Human welfare"** held on 16-18 November, 2018, organized by Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh
8. Presented a paper entitled as "Educational Institute as Incubation pocket for Harboring Biodiversity" in the **International Biodiversity Congress**, held on 4-6 October 2018, organised by Forest Research Institute, Dehradun, Uttarakhand.
9. Presented a paper entitled as "*Melia Azedarach*: a Potent Insect Inhibitor and an Alternative to Biodiversity Pollutant-Synthetic Insecticides" in the **International Biodiversity Congress**, held on 4-6 October 2018, organised by Forest Research Institute, Dehradun, Uttarakhand.
10. Presented a paper entitled as "An approach to protect environment: Microbial Fuel Cell" at DST Sponsored National Seminar on **"Innovation in Sciences In Emerging Challenges in Health and Environment (NSHE-2018)"** held on 20<sup>th</sup> march, 2018, at Daulat Ram College, University of Delhi, Delhi.
11. Presented a poster in DST Sponsored National Seminar on **"Saksham Mahila, Saksham Samaaj: Ek Vaigyanik Drishtikon: A Paradigm Shift Towards Empowerment of Women"** held from 3-4 February 2017, at Kalindi College, University of Delhi, Delhi-110007.
12. Participated and displayed project model **"Microbial**



**Fuel Cell**” at “**Innovation Festival 2017**” from 20-23 January 2017, organised by Innovation Space, National Science Centre, Pragati Maidan, New Delhi-110001.

**Participation in Conference/Seminar/workshop**

1. Participated in National Leadership Summit on **“Excellence in Higher Education: Current Challenges and the Road Ahead”** held on 6<sup>th</sup>-7<sup>th</sup> December, 2019, organized by Mahatma Hansraj Faculty Development Centre (MHRFDC) and IQAC, Hansraj College, University of Delhi.
2. Participated in Faculty Development Programme for **“Shifted Goalposts in New NAAC: A Challenge for Today’s IQAC”** held on 10<sup>th</sup> September 2018, organised by Sri Guru Nanak Dev Khalsa College, University of Delhi, at SGND Khalsa College, University of Delhi.
3. Participated in 1 Day workshop on “Document Verification: A Forensic Perspective ” held on 11<sup>th</sup> June, 2018 organised by Shaheed Rajguru College of Applied Science for Women, University of Delhi.
4. Participated in First International Conference on **“Mass Disaster and Emergency Management (A Lifesaving strategy)”** held on 20-21 April, 2018, organized by National Task force for Disaster Management in association with Kingsmead School, England at Dyal Singh college, University of Delhi.
5. Participated in **“Science Academies Lecture Workshop”** on “Ingenuity in Biological Sciences” held from 11-12 January, 2018 organised by Gargi College, University of Delhi, at Gargi College, University of Delhi.
6. Participated as Science Ambassador in **“1st Science Ambassador Program, a Seminar & Workshop on Recent Developments in Biotechnology”** held on 6<sup>th</sup> November, 2017 organised Bio-Red laboratories in association with Deshbandhu College, University of Delhi and St. Thomas Girls Sr. Sec. School, at St. Thomas Girls Sr. Sec. School, Delhi.
7. Participated in **“One Day Faculty Development Programme on Research Based Pedagogical Tools (RBPT) for Undergraduate Level Science Teachers”** held on 3<sup>rd</sup> November, 2017, at Deen Dayal Upadhyaya College, University of Delhi.
8. Participated in workshop **“DST Sponsored Third Lecture Workshop”** on **“Trans-disciplinary Areas of Research and Teaching”** by **Shanti Swaroop Bhatnagar Awardees**, held from 15-16 September, 2017, at Deen Dayal Upadhyaya College, University of Delhi.



9. Participated in workshop on **“Undergraduate Science Teachers, Workshop themed at Developing Scientific Temper in Students: Tools & Techniques”** held on 31st January, 2017, at Ramjas College organised by Department of Zoology, Ramjas College University of Delhi, Delhi-110007 and India Bioscience.
10. Participated in workshop on **“Bioinformatics and Biostatistics Workshop: An Introduction”** held from 24-25 February 2016, at Department of Zoology, Miranda House College, University of Delhi, Delhi-110007
11. Participated in workshop on **“6<sup>th</sup> Workshop on Bioinformatics and Molecular Modelling in Drug Design”** held from 21-23 January 2016, at Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi-110007
12. Participated in workshop on **“Training Workshop in Animal Behaviour”** held from 19-25 August 2015, at Department of Zoology, University of Delhi, Delhi-110007
13. Participated in *DST-SERB* supported National Conference on **“Climate Changes: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspectives”** held from 02-03 March 2015, at Conference Hall, University of Delhi, organized by Department of Botany, Deen Dayal Upadhyaya College, University of Delhi, Delhi-110015.
14. Participated in Workshop **“Data Acquisition and Analysis”** held on 30<sup>th</sup> September 2014, at Department of Zoology, University of Delhi, Delhi.
15. Participated in Workshop **“Training & Awareness Program on Intellectual Property Rights”** held on 2<sup>nd</sup> November 2014, at Conference Hall, University of Delhi, organized by FICCI in association with IPO & University of Delhi.
16. Participated in Workshop **“Role of Youth in Combating Climatic Change”** held on 3<sup>rd</sup> November, 2014, at Mahatma Gandhi Institute for Combating Climatic Changes, Bakoli, Alipur, Delhi-110036.
17. Participated in **“3<sup>rd</sup> Training Workshop in Drosophila”** held on 20-21 September, 2013 at Department of Zoology conducted by Department of Zoology, University of Delhi.
18. Participated in “Hands-on cum workshop for Teachers” for the course **“Paper 21: Evolutionary Biology”** held on 10<sup>th</sup> February, 2013 at SGTB Khalsa College, conducted by *Sri Guru Tegh Bahadur Khalsa College* in collaboration with *Acharya Narendra Dev College* and

*Swami Shraddhanand College, University of Delhi.*

19. Participated in **“Introduction to Bioinformatics”** Workshop for faculty of Delhi University, held from 16-22 January, 2013 at Institute of Life Long Learning (ILLL), University of Delhi organised by Zakir Husain Delhi College University of Delhi.
20. Participated in Bioinformatics Workshop for faculty of Delhi University, held from 27-30 July, 2011 at Department of Bioinformatics, Sri Venkateswara College University of Delhi.
21. One Day Training Programme for “Prevention and Control of Dengue Fever” held on 24<sup>th</sup> December, 2004 at Delhi Sachivalaya, organized by Health Department, Municipal Corporation of Delhi.

**Membership of Learned Societies/ Professional Bodies:**

1. Life time member of **“Society for Promotion of Education and Science (SPES)”**, Delhi, India

**Awards & Honours Received:**

1. Senior Research Fellow (SRF), CSIR (Council Of Scientific And Industrial Research, Human Resource Development Group), and Junior Research Fellow (JRF), through CSIR-JRF, NET, Qualified on 1/12/2005.
2. Received SC/ST Meritorious Award by NCT, Delhi Government in 2002-03.

**Others:**

**Subject Expert/Special Lecture**

1. Visited as Subject Expert (Evaluation Board) for the Zoology subject at Jharkhand Public Service Commission (JPSC), Ranchi, Jharkhand from 08-11-2019 to 17-11-2019.
2. Special/Invited Lectures on **“Forensic Entomology”** for **M.Sc. Forensic Science Course (Part-II- Sem III)** at Department of Anthropology, University of Delhi on 4<sup>th</sup> September and 23<sup>rd</sup> October, 2018.
3. Visited as Subject Expert (Interview Board Member) for the Post of Science teachers conducted by EdCIL (India) in Odisha Adarsh Vidyalaya Sangathan (OAVS) at Bhubaneswar, Odisha.

**Resource Person**

1. Resource person and delivered a lecture the topic **“Right to Information Act 2005”** in Two-Day Training Workshop for Administrative Staff from 7-8 January 2019 on the **Theme: Administration and Institutional**

**Managements- RTI**, in NAAC sponsored National workshop on "**Skill Enhancement At Institutions of Higher Learning: Training Today and Tomorrow**" organised by IQAC, Library and Science Departments, Kalindi College from 7-13 January 2019, at Kalindi College, University of Delhi.

2. Resource person and presented the topic "**Bio-Safety and Waste Management**" under the sub-session "Biological Waste Management" in workshop on "**Skill Enhancement Workshop for Laboratory Staff**" held on 13-14 March 2018, organised by IQAC and Science Departments, Kalindi College, at Kalindi College, University of Delhi.

### **Board of Studies/Syllabus revision**

Member in University of Delhi-Learning Outcome-Based Curriculum Framework (LOCF) for Undergraduate CBCS Syllabus in Zoology Department, University of Delhi.

#### **Subjects:**

1. Research Methodology, B.Sc. (H) Zoology, III Sem., SEC paper
2. Computational Biology, B.Sc. (H) Zoology, V Sem., DSE paper
3. General Entomology, B.Sc. Applied Life Sciences, VI, Core paper

Completed Add-on Certificate Course in "**Medical Biotechnology**" (2008), D. S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.