


FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	Dr	First Name	VARSHA	Last Name	SINGH	Photograph
Designation	ASSOCIATE PROFESSOR					
Department	ZOOLOGY					
Address (Official)	Department of Zoology Kalindi College, University of Delhi East Patel Nagar, New Delhi-110008					
Phone No.						
Email	varshabhu@gmail.com					
Education						
<i>Degree</i>	<i>Institution</i>				<i>Year</i>	<i>Details</i>
Ph.D	Banaras Hindu University, India				2009	-
PG (M.Sc.)	Allahabad University, India				2001	-
UG (B.Sc.)	Allahabad University, India				1998	-
Any other qualification	NET Qualified				2001	-
Career Profile						
Organisation/Institution	Designation			Duration	Role	
Council for Scientific and Industrial Research, India	Research Associate at University of Delhi			August 2011- Dec-2012	Research (Post-Doctoral)	
UGC-D. S. Kothari Fellowship	Post Doctoral Fellow at University of Delhi			Dec-2012- May-2014	Research (Post-Doctoral)	
Kalindi College, University of Delhi	Assistant Professor			May 2014- till date	Teaching	
Research Interests/Specialization						
Neuro-Endocrinology and Immuno-Endocrinology of Fishes and Reptiles, conservation of butterflies						
Administrative Assignments / Contribution to corporate life						
<p><i>College level committee</i></p> <ol style="list-style-type: none"> 1. Member, Admission Core Committee 2. Member, Purchase Committee 2015-2021 3. Member, Research Committee 2015-2021 4. Convener, Group Dance society 2015-2021 5. Member, Inventory, stock keeping & weeding out 6. Member, Workload committee 2016-2021 7. Co-convener for outstation student database 2018-2021 8. Development committee: Convener- Students Common Room 2015-2021 9. Member/nodal officer : WUS-DUS 10. Co-Convener, LEHREN 2017, 2018 Sponsorship committee 						

11. Co-convenor, Marksheet Collection Committee, Admission Committee 2018-19
12. Convener, Zoological Society, ZOONOMIA, 2018-2019, 2021-2022
13. Co-Convener, Zoological Society, ZOONOMIA, 2019-2020
14. Convener LEHREN 2019 Sponsorship committee
15. Member, WDC 2016-2021
16. Member, ARIIA 2019-2020
17. Member, Research Fund Allocation Committee 2018-2021
18. Convener, Incubation Center 2018-2020
19. College IQAC Co-cordinator 2019-2021, 2021-2022, 2022- till date
20. Convener Research Committee (2021-2022 2022-till date)

Teaching Experiences (Subject/Courses taught)

1. Diversity and Distribution of Chordata
2. Comparative Anatomy of Vertebrates
3. Food, Nutrition and Health
4. Animal Behaviour and Chronobiology
5. Biodiversity
6. Bioinformatics and Biostatics
7. Biotechnology: microbes to animals
8. Environmental studies
9. Perspective in Ecology
10. Human Physiology
11. Aquarium fish keeping
12. Medical diagnostics
13. Public Health and Hygiene
14. Evolutionary biology

Research Guidance

- **Under Graduate Student Research Guidance – 2015-2016**
 - Delhi University-Innovation Project KC-305 titled “**Inventory and creation of butterfly conservatory in an urban setup**”
 - **Under Graduate Student Research Guidance – 2018-2019 and 2019-2020**
 - Kalindi College In-House Project 2018/27 titled “**Linking urban green spaces with potential carbon stock**”
 - Kalindi College In-House Project 2018/28 titled “**Reinvigorate the Butterfly Conservatory**”

Publication (Peer Reviewed/Indexed Journals)

Total Publication: 15

h-Index: 9

Total Impact Factor: 31.05

Total Citation: 283

1. **Singh, V., & Joy, K. P., (2008).** Immunocytochemical localization, HPLC characterization, and seasonal dynamics of vasotocin in the brain, blood plasma and gonads of the catfish *Heteropneustes fossilis*. **General and Comparative Endocrinology** 159, 214–225. **(IF 3.255)**
2. **Singh, V., & Joy, K. P., (2009).** Effects of hCG and ovarian steroid hormones on vasotocin levels in the female catfish *Heteropneustes fossilis*. **General and Comparative Endocrinology** 162, 257-264. **(IF 3.255)**
3. **Singh, V., & Joy, K. P., (2009).** Relative in vitro seasonal effects of vasotocin and isotocin on ovarian steroid hormone levels in the catfish *Heteropneustes fossilis*. **General and Comparative Endocrinology** 162, 172-178. **(IF 3.255)**
4. Chourasia, T. K., Chaube, R., **Singh, V., & Joy, K. P. (2010).** Annual and periovulatory changes in tyrosine hydroxylase activity in the ovary of the catfish *Heteropneustes fossilis* **General and Comparative Endocrinology** 166, 111–116. **(IF 3.255)**
5. **Singh, V., & Joy, K. P., (2010).** An involvement of vasotocin in oocyte hydration in the catfish *Heteropneustes fossilis*: a comparison with effects of isotocin and hCG. **General and Comparative Endocrinology** 166, 504-512. **(IF 3.255)**
6. **Singh, V., & Chaube, R., Chourasia, T. K., Joy, K. P., (2010).** Temporal and periovulatory changes in ovarian catecholamine in the catfish *Heteropneustes fossilis*. **General and Comparative Endocrinology** 168, 46-54. **(IF 3.255)**
7. Chaube R, Chauvigné F, Tingaud-Sequeira A, Joy KP, Acharjee A, **Singh V**, Cerdà J. (2011) Molecular and functional characterization of catfish (*Heteropneustes fossilis*) aquaporin-1b: Changes in expression during ovarian development and hormone-induced follicular maturation. **General and Comparative Endocrinology** 170, 162-171. **(IF 3.255)**
8. **Singh, V., Chaube, R., Chourasia, T.K., & Joy, K. P., (2011).** Effects of α - methylparatyrosine, a catecholamine inhibitor on ovarian steroid hormone levels in the catfish *Heteropneustes fossilis*. **Ind. J. Sci. Technol.** 9th ISPRF Vol. 4. No. S-8 (AUG-2011) ISSN: 0974-6846
9. **Singh, V. & Joy, K. P., (2011).** Vasotocin induces final oocyte maturation and ovulation, through the production of a maturation-inducing steroid in the catfish *Heteropneustes fossilis*. **General and Comparative Endocrinology** 174, 15-21. **(IF 3.255)**

10. Joy, K. P. & Singh, V., (2013). Functional interactions between vasotocin and prostaglandins during final oocyte maturation and ovulation in the catfish *Heteropneustes fossilis*. **General and Comparative Endocrinology** 186, 126-135. (IF 3.255)
11. Joy, K. P., Singh, V., & Chaube, R., (2014). An in vitro study on catecholamine modulation of ovarian steroidogenic activity in the catfish *Heteropneustes fossilis*. *General and Comparative Endocrinology*, 196, 91-99. (IF 3.255)
12. Singh, V., Priyam, M., Tripathy, M & Rai, U., (2017). Purification and identification of 25-hydroxycholesterol in a reptile: Seasonal variation and hormonal regulation. *General and Comparative Endocrinology*, 196, 91-99. (IF 3.255)
13. Varsha Singh., Tarkeshwar. (2020). Educational institutions as incubation pocket for harbouring biodiversity. *Perspectives on Biodiversity of India Vol. IV*, 367-369 (Proceedings of the International Biodiversity Congress (IBC 2018), 4-6th October 2018 held at Forest Research Institute, Dehradun, India. ISBN: 978-81-937930-6-0
14. Varsha Singh , Radha Chaube , K.P. Joy., (2021). Vasotocin stimulates maturation-inducing hormone, oocyte maturation and ovulation in the catfish *Heteropneustes fossilis*: Evidence for a preferential calcium involvement. **Theriogenology**, 167, 51-60. (IF.2.9)
15. Varsha Singh, Mamta Tripathy, Umesh Rai., (2021). Testicular 25-hydroxycholesterol: An alternate substrate for steroidogenesis in reptiles. **General and Comparative Endocrinology** 314, 113906. (IF 3.255).
16. Neha Goyal, Mamta Tripathy, Varsha Singh & Gyan Prakash Sharma., (2023). Transformative potential of Higher Education Institutions for fostering sustainable development in India. *Anthropocene Science* 2, 112-122.

Seminar/Conferences Presentation

1. Joy, K. P., Singh, V., (2005) Catfish neurohypophysial octapeptides: characterization, dynamics and role in reproduction. National Symposium on Comparative Endocrinology and Reproductive Physiology: Retrospect and Prospect. November 17-19, 2005. University of New Delhi, India.
2. Singh, V., Joy, K. P., (2007) Effects of perfusion of testicular and seminal vesicle preparations on brain and plasma arginine vasotocin in the catfish *Heteropneustes fossilis*. XXV National Symposium on Reproductive Biology and Comparative Endocrinology, "Translational Endocrinology and Reproduction" 15-17 January, 2007. University of Kerala, India. (Awarded second prize for the presentation).
3. Singh, V., Joy, K. P., (2007) Occurrence of arginine vasotocin in the ovary of the catfish *Heteropneustes fossilis* and its role in steroidogenesis. National Symposium on "An Update of Reproductive Endocrinology: Novel and Applied Strategies" 26-28 February, 2007. Banaras Hindu University, India.

4. **Singh, V.,** Joy, K. P., (2007) Ovarian arginine vasotocin (AVT) in the catfish *Heteropneustes fossilis*: Role in steroid secretion and oocyte maturation and ovulation. National Symposium on Comparative Endocrinology and Reproductive Physiology: Insights and Challenges. 26-28 November, 2007. Visva Bharati, Santiniketan, India.
5. **Singh, V.,** Rai, U., (2013) Characterization and dynamics of 25-hydroxycholesterol in testicular macrophages of wall lizard *Hemidactylus flaviviridis*. International conference on Comparative Endocrinology and Physiology. 21-23 October, 2013, RTM Nagpur University, Nagpur, India.
6. **Singh, V.,** Rai, U., (2015) First time evidence on production and hormonal regulation of 25- hydroxycholesterol by testicular macrophages in a non-mammalian vertebrate. International Symposium for Reproductive Biology and Comparative Endocrinology. 25-27 February, 2015, Banaras Hindu University, Varanasi, India.
7. Attended DST-SERB supported National conference on “ Climate change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective, 02-03 March, 2015, Department of Botany, Deen Dayal Upadhyaya College, University of Delhi, New Delhi.
8. R. Malhotra, S. Mehrotra, A. Ghosh, G. Cherian, Preeti, A. Gaur, M. Kashyap, A. Pandey, Shivani, Priya, Tarkeshwar, Amit, S. Soham, **Varsha Singh**, (2016) “Conserving Tagfalter” at Second National Symposium on “Environment: Greener future and awareness” organised at Deshbandhu College, University of Delhi, 19th March 2016.
9. Radhika Malhotra, Sonakshi Mehrotra, **Varsha Singh**, (2016) “Conserving butterflies in rapidly changing National Capital region (NCR)” at National Symposium on ‘Trends in research and innovations in life sciences at undergraduate level’ at Deen Dayal Upadhyaya college on 30th March 2016.
10. **Singh, V** and Rai, U (2018) 25-hydroxycholesterol in testis of *Hemidactylus flaviviridis*: dynamics and role in testicular steroidogenesis. International Conference on Reproductive Physiology and Comparative Endocrinology, 20-22 January 2018 at BITS Pilani, Goa, India
11. **Singh, V.,** and Tarkeshwar, (2018) " Educational Institute as Incubation pocket for harbouring biodiversity" in the International Biodiversity Congress, 4-6 October 2018, Forest Research Institute , Dehradun.
12. **Singh, V.,** and Tarkeshwar, (2018) "Biodiversity conservation through Tagfalter: Role of Institution and Youth" in the International Conference on Advances in Biological and Environmental Research for Human welfare organized by Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur on 16-18 November, 2018.
13. Sherin Babu, Dr. Tarkeshwar Dr. Manisha Arora Pandit, and **Dr. Varsha Singh** (2019)"Linking urban green spaces with potential carbon stock" three day National Seminar, by Commission of Scientific and Technical Terminology (CSTT), MHRD, Govt. of India entitled "Use of scientific & technical terminologies in sustainable

environment development, its challenges, computational analysis and opportunities” on 14-16 March, 2019 at Gargi College, Siri Fort Road, Delhi 110049.

14. Aditi Agarwal, Ruchira Agarwal, Shalini Sharma, Shivangee Jaisawal, Sherin Babu, Dr. Tarkeshwar, Dr. Manisha Arora Pandit, **Dr. Varsha Singh** (2019) " Carbon Sequestration by urban green spaces" in Three days National Workshop on "Recent Trends and Advancements in Chemical Sciences" Organised by Department of Chemistry and Bhaskaracharya College of Applied Sciences, University of Delhi, in association with Society for Promotion of Education and Science at Conference Centre, University of Delhi on 29-31 March 2019.
15. Shalini Sharma, Ruchira Agarwal, Shivangee Jaiswal, Aditi Aggarwal, Sherin Babu, Dr. Tarkeshwar , Dr. Mamta Tripathy, **Dr. Varsha Singh** (2019) " Carbon Sequestration: Study In College Campus" in One day National Seminar on "Trends in biological Research and career prospects", organized by Department of Zoology, Shiva Ji College, University of Delhi, New Delhi on 27th September 2019.
16. Aditi Gupta, Dr. Tarkeshwar, **Dr. Varsha Singh** (2019) " Butterfly conservatory: two pronged strategy to protect plants and insects" in two days National seminar on “Insect-Plant Biology in 21st Century” Organized by Department of Zoology, Deshbandhu College University of Delhi, New Delhi-110019 on 4-5 November 2019.
17. **Varsha Singh**, Radha Chaube and K.P. Joy (2019) "Functional interaction between vasotocin and corticosteroids in the catfish *Heteropneustes fossilis*" in two day National Conference on "Research development in fisheries", organized by Department of Zoology, BBAU, Lucknow on 7-8 November, 2019.
18. **Varsha Singh**, Radha Chaube and K.P. Joy (2022). Functional interaction between vasotocin and corticosteroids during oocyte maturation in the catfish *Heteropneustes fossilis*” in three days International conference on Reproductive biology, Comparative endocrinology & Development organized by CSIR CCMB Hyderabad on 14-1 September 2022.

Seminar/conference/Workshop Attended

1. Attended National Colloquium on Recent Advances in Molecular and Cellular Endocrinology. 23-25 September, 2011, Department of Zoology, Banaras Hindu University, Varanasi, India.
2. Attended Workshop on ‘Role of youth in combating climate change’ 3 November, 2014, Mahatma Gandhi Institute for Combating Climate Change, Alipur, Delhi.
3. Attended Workshop on ‘Information Literacy and Competency’, 4 December, 2014, Delhi University Library System, University of Delhi, Delhi.
4. Attended Workshop on ‘Animal Behaviour course’ Organised by Department of Zoology, University of Delhi from 19th to 25th August 2015
5. Attended a 6th Workshop on “Bioinformatics and molecular modelling in drug designing” organised at Dr. B.R. Ambedkar Center for Biomedical Research University of Delhi, from 21st -23rd January 2016.
6. Indo US Workshop and International Symposium on “Biological Timing and Health” organised by Department of Zoology, University of Delhi from 22nd -24th February 2017.

7. Capacity Building training in “National Pension Scheme (NPS)” organised by Kalindi College, University of Delhi on 21st March 2017.
8. Participated in the “Regional Workshop Research As Pedagogy a Science Teacher Education” Program (RAP a STEP) for teachers of undergraduate science courses held on May 9th and August 18th – 19th 2017 at SGTB Khalsa College and Gargi College, University of Delhi, respectively.
9. Attended “Third Lecture Workshop on Trans-Disciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees” organized by Science Foundation, Deen Dayal Upadhyaya College, University of Delhi, from 15th -16th September 2017.
10. Attended and completed the "Entrepreneurship Development Programme" conducted by The National Institute for Entrepreneurship and Small Business Development from 15-17 January 2019.
11. Participated in one day Workshop on "An exposition of perishable products of North East and its challenges" organised by IBSD Kalindi College on 6th March 2019 at Kalindi College, University of Delhi
12. Participated in National Workshop titled “*Emerging Pollution Challenges on Earth Ecosystem–SAFAR, India’s Novel Initiative*” on Tuesday 26th March 2019 at the Conference Centre, University of Delhi, Delhi.
13. Participated in a two-day International conference on "Changing Environment: Understanding the emerging challenges and their management strategies on 11-12 April, 2019 at Kalindi college, University of Delhi, Delhi
14. Participated in Workshop on “Foldscope: an educational and Research Tool” at IGNOU, New Delhi on 23rd August 2019.
15. Participated in DBT sponsored workshop on “The Foldscope” at Department of Zoology, Kalindi College, University of Delhi on 24th September 2019.
16. Attended and completed the "Entrepreneurship Development Programme" conducted by The National Institute for Entrepreneurship and Small Business Development from 29-31 January 2020.
17. Attended and completed one-day GEM training workshop at Kalindi College, University of Delhi on 31st January 2020.
18. Participated in International webinar on “Covid-19 Pandemic: Challenges and recent advancement” organised by Jawahar Lal Nehru University, Delhi on 25th and 26th April 2020.
19. Participated in the webinar on “Understanding the Corona virus: some good news” organized by department of Mathematics, Kalindi College, University of Delhi on 5th May 2020.
20. Participated in the webinar on “Narratives in Lockdown: A psychology perspective” organized by the Department of Geography, Kalindi College, University of Delhi on 18th May 2020.
21. Participated in online conference on “Environmental Pollutants and Cancer” organised by Central University of Himachal Pradesh on 20th and 21st May 2020.
22. Participated in the National Online Workshop on “Face Yoga in the Times of Covid-19” organised by Counselling Cell, Kalindi College on 27th June.
23. Participated in the webinar on “Leave rules and procedures for University and College employees” organized by IQAC, Staff Association and Library, Kalindi College, University of Delhi on 17th June 2020.
24. Participated in Webinar on “Feedback, SSS, Best and Distinctive practices” organized by PGK Mandal’s Haribhai V. Desai Arts, science and commerce college, Pune, Maharashtra in association with IQAC cluster India and White code from 19 May 2021 to 21 May 2021.
25. Participated in Two-day workshop on “Microtomy: Principles and procedure” organised by Department of Zoology, Kirorimal College, University of Delhi, from 20-June 2023 to 21 June 2023.

Workshop/FDP Organised

1. Organised a workshop in collaboration with WUS-DU on “Face Yoga” by Mrs. Manasi Gulati (Mrs. India Asia- International and International Yoga Expert) on 28th October 2015 at Kalindi College, University of Delhi, East Patel Nagar, New Delhi-110008.
2. Organized a "Skill Enhancement Workshop for Laboratory Staff" held at Kalindi College, New Delhi on 13-14 March 2018.
3. Organized as convener the "Entrepreneurship Development Programme" conducted by The National Institute for Entrepreneurship and Small Business Development from 15-17 January 2019.
4. Organized a NAAC sponsored National workshop on "Skill Enhancement At Institutions of Higher Learning: Training Today and Tomorrow" at Kalindi College, New Delhi, 7-13 January 2019.
5. Organized as member a one day National DBT sponsored workshop "Foldscope" on 10th April, 2019 at Kalindi College, University of Delhi, Delhi.
6. Organized as Co-convener the "Entrepreneurship Development Programme" conducted by The National Institute for Entrepreneurship and Small Business Development from 29-31 January 2020.
7. Organised as a program convener a workshop on “Cyber Security” in association with Ministry of Electronics and Information Technology with Zoological Society Kalindi College, on 30-08-2022.
8. Organised as a program Coordinator Workshop on “Intellectual Property Rights-Patents and Design Filing” Research Committee and IQAC, Kalindi College, University of Delhi, on 9-11-2022.
9. Organised as a Collaborator as research committee convener in Seven days FDP on “राजभाषा हिंदी प्रशिक्षण” IQAC, Research Committee and, Department of Hindi, Kalindi College, University of Delhi from 22 June 2023 to 28 June 2023.

FDP/ Orientation course/ Refresher course attended

1. Participated and completed Orientation course with Grade A in at CPDHE, University of Delhi, Delhi.
2. Participated in Two Days Faculty Development Programme on "Agriculture, Health and Society" organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, from 15th -16th March 2019.

3. Participated in Seven Days Faculty Development Programme on "Recent trends in research methodology, E-content, mathematical and statistical methods in open education world" organised by IQAC Kalindi College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi from 17-23 December 2019.
4. Participated and completed Refresher course with Grade A in Life Sciences from 28th June to 11th July 2019 at CPDHE, University of Delhi, Delhi.
5. Online Faculty Development Program on "Environmental Impacts of Covid-19 Pandemic: Challenges and Future Research" Organized by University School of Environment Management, Guru Gobind Singh Indraprastha University from 27th May-1st June, 2020
6. One Week Online Faculty Development Programme on "RESEARCH METHODOLOGY: TOOLS & TECHNIQUES" under Pandit Madan Mohan Malviya National Mission on Teachers and Training Scheme of MHRD, Govt. of India at ARSD College, University of Delhi from 5th - 11th June, 2020
7. Attended and completed Two Week Online Faculty Development Programme on "Samkalin sandarbh mai sahitya, rajniti, media aur bazar" organised by Pandit Madan Mohan Malviya National Mission on Teachers and Training Scheme of MHRD, Govt. of India Ramanujan College and Kalindi College from 27th July 2020-10th August 2020.
8. Attended and completed Two Week Online Faculty Development Programme on "Research Methodology" organised by Pandit Madan Mohan Malviya National Mission on Teachers and Training Scheme of MHRD, Govt. of India Ramanujan College from 1st October 2020-15th October 2020.

Conference/Seminar Organised

1. Organized as Convener a one day science festival in association with Vigyan Prasar, DST Govt. Of India at Kalindi College, University of Delhi, Delhi, on 12th October 2018.
2. Organized as a member a two day International conference on "Changing Environment: Understanding the emerging challenges and their management strategies on 11-12 April, 2019 at Kalindi college, University of Delhi, Delhi.
3. Organised as a Convener Zoological Society in association with IQAC and NIESBUD the "Entrepreneurship Development Programme" conducted by The National Institute for Entrepreneurship and Small Business Development from 15-17 January 2019.
4. Organised as a Co-convener Zoological Society in association with IQAC and NIESBUD the "Entrepreneurship Development Programme" conducted by The National Institute for Entrepreneurship and Small Business Development from 29-31 January 2020.
5. Organized as a member the International Conference on "Drug development, its Challenges and the role of Nutrition in Immun-boosting against Covid-19" organized by Zoology

Department under aegis of IQAC, Kalindi College, University of Delhi, Delhi, India on 20th May, 2020.

6. Organised as Coordinator National Webinar on "Biodiversity in the Anthropocene" conducted by Department of Zoology and IQAC Kalindi College on 23rd June 2020.
7. Organised as Coordinator National E-Quiz to create "General Awareness on Health" conducted by IQAC Kalindi College in association with WUS-DUC, Delhi University from 9-13th July 2020.
8. Organised as Coordinator National online Inter-College Slogan Writing and Poster Making Competition conducted by the Department of Zoology and IQAC, Kalindi College, University of Delhi on 10th October 2020.
9. Organised as Convener Research Committee in association with IQAC a National webinar on "How to avoid predatory publishing? What researcher can do" on 24th July 2021
10. Organised as Convener Research Committee in association with IQAC a National webinar on "Intellectual Property Rights in Academics" on 30th September 2021.
11. Organised as Coordinator National online Inter-College Slogan Writing and Poster Making Competition conducted by the Department of Zoology and IQAC, Kalindi College, University of Delhi on 11th November 2021.
12. Organised as Convener Zoological Society a skill workshop on "Art of facing an Interview" on 25th January 2022.
13. Organised as a program convener a National Conference on "Recent Approaches for Sustainable Development" (Hybrid Mode) in collaboration with MGICCC, Govt. of Delhi India, on 11th -12th April, 2022.

14.

Special Lectures/ Resource person

1. **Resource person at** "Skill Enhancement Workshop for Laboratory Staff" held at Kalindi College, New Delhi on 13-14 March 2018.
2. **Resource Person at** NAAC sponsored National workshop on "Skill Enhancement At Institutions of Higher Learning: Training Today and Tomorrow" at Kalindi College, New Delhi, 7-13 January 2019.
3. Delivered Special Lectures on "Forensic Entomology" for M.Sc. Forensic Science Course (Sem III) at Department of Anthropology, University of Delhi on 4th September and 23rd October, 2018.
4. Chaired a session at International Colloquium on "Regulatory Mechanisms underlying Behavior, Physiology and Development", March 24-26, 2021 at Department of Zoology, University of Delhi, Delhi.

Board of Studies/Syllabus revision

1. Co-ordinator and Member in LOCF Syllabus Preparation committee in Zoology Department, University of Delhi (Food Nutrition and Health and Endocrinology).
2. Member in UGCF NEP 2022 syllabus drafting Committee in Zoology Zoology Department, University of Delhi (Human Physiology-I, Medical Diagnostics, Animal Ecology)
3. Member of Courses Committee in Zoology Department, University of Delhi.

Awards & Distinctions

1. Awarded second prize for the presentation at XXV National Symposium on Reproductive Biology and Comparative Endocrinology, "Translational Endocrinology and Reproduction" 15-17 January, 2007. University of Kerala, India.
2. Awarded Certificate of "**Most Significant Societal Impact**" Project entitled "Inventory and Creation of Butterfly Conservatory in an Urban Setup" at Convocation Ceremony of Delhi University on 19th November 2016 at Delhi University, Delhi.

Public Service/ University Service/ Consulting Activity

- Member, Delhi University Women's Association
- Member, WUS, University of Delhi
- Member, IUCN, CEM South Asia
- Member International Neuroendocrine Federation
- Member Society for Biotechnologists India (SBTI).
- Reviewer in Tropical Ecology (Springer)
- Reviewer Aquaculture and Fisheries
- Reviewer Proceedings of Zoological Society
- Reviewer Journal of Environment Biology
- Reviewer for UGC STRIDE projects
- Editing, Translation and Review of book/course material of School of Science, Indira Gandhi National Open University (IGNOU), New Delhi. Course: Biology, Subject: Biochemistry, Title: Book IGNOU: C 3 Unit 10- Protein Folding (Dr. Varsha Singh)
- Examiner for paper setting Sher-e-Kashmir, University of Agricultural Sciences and Technology of Kashmir, 2021-2022
- Examiner for paper setting Lok Seva Aayog, Madhya Pradesh, 2022-2023

Professional Societies Memberships

- Life member of Indian Society of Comparative Endocrinology (ISCE).
Life member of Society for Biotechnologists India (SBTI).
Life member of Delhi University Women's Association (DUWA)
Life member of Society of Reproductive Biology and Comparative Endocrinology (SRBCE).

Projects

Project: Major

1. UGC-Start-up Grant 2015 ((F.30-110/2015 (BSR)

Title: "Synthesis of 25-hydroxycholesterol by testicular macrophages in *Hemidactylus flaviviridis*: an alternate pathway for steroidogenesis in testis"

Total budget: Rs. Six Lakhs Only (600,000/-)

Status: Completed

2. Innovation Project KC-305

Title: " Inventory and creation of Butterfly conservation in an urban setup"

Total budget: Rs. Five Lakhs Only (500,000/-)

Status: Completed

3. DST-SERB ECR (2017-2020)

Title: "Functional interaction between vasotocin and corticosteroids in catfish *Heteropneustes fossilis*"

Total budget: Rs. 23,07201/-

Status: Completed

4. DST-SERB CRG (2022-2025)

Title: "Functional interaction between vasotocin and corticosteroids in catfish *Heteropneustes fossilis*"

Total budget: Rs. 19,80000/-

Status: Ongoing

Project: Minor

1. Title of the Project: “**Linking Urban Spaces with potential Carbon Stock**”.

In house Project Code: 27/2018

Name Investigator: Dr. Varsha Singh, Dr. Manisha Arora Pandit & Dr. Tarkeshwar

Assistant Professor, Department of Zoology, Kalindi College, University of Delhi

Number of Undergraduate students Involved in the project: 05 Students

Total fund of the project: Rs. 7,500/-

2. Title of the Project: “**Reinventing the Butterfly Conservatory**”.

In house Project Code: 28/2018

Name Investigator: Dr. Varsha Singh & Dr. Manisha Arora Pandit & Dr. Tarkeshwar

Assistant Professor, Department of Zoology, Kalindi College, University of Delhi

Number of Undergraduate students Involved in the project: 15 Students

Total fund of the project: Rs. 7,500/-

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

Inhouse Project Code: 45/2018.

Name Investigator: Dr. Tarkeshwar , Dr. Punita Verma & Dr. Varsha Singh

Assistant Professor, Department of Zoology, Kalindi College, University of Delhi

Number of Undergraduate students Involved in the project: 05 Students

Total fund of the project: Rs. 10,000/-

4. Title of the Project: “**Linking Urban Spaces with potential Carbon Stock**”.

In house Project Code: 09/2019

Name Investigator: Dr. Varsha Singh, Dr. Mamta Tripathy, Dr. Tarkeshwar
Assistant Professor, Department of Zoology, Kalindi College, University of Delhi

Number of Undergraduate students Involved in the project: 05 Students

Total fund of the project: Rs. 10,000/-

5. Title of the Project: “**Reinventing the Butterfly Conservatory**”.

In house Project Code: 08/2019

Name Investigator: Dr. Varsha Singh & Dr. M. Rojina Devi, Dr. Tarkeshwar
Assistant Professor, Department of Zoology, Kalindi College, University of Delhi

Number of Undergraduate students Involved in the project: 15 Students

Total fund of the project: Rs. 10,000/-

Other Details

1. Panel discussion on television (News Nation, Lok Sabha channels).
2. Judge at the Occasion of CBSE National Level Science Exhibition at Mount Abu Public School, Rohini, Delhi from 10-12 February, 2018.
3. Panel discussion as educationalist at Hindustan Times "Chai pe Chaupal" on 8th February 2019.
4. Judges for the Recitation competition conducted on the 2nd Anniversary of, “Chocolate Pe Charcha”, dated 6th September 2020.