## FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	Dr	First Name	VARSHA	Last Name	SINGH	Photograph	1
Designation	ASSOCIATE PROFESSOR						
Department	ZOOLOGY					6	in the
Address (Official)	Department of Zoology Kalindi College, University of Delhi						
	East Patel Nagar, New Delhi-110008						
Phone No.							
Email	varshabhu@gmail.com						
Education							
Degree	Institution					Year	Details
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	-
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Career Profile		<b>D</b> :				D 1	
Organisation/Institution		Designation Duration			Role		
Council for Scientific and		Research Associate at August 2011-			Research (Post-Doctoral)		
Industrial Research, India		University of Delhi Dec-2012					
UGC-D. S. Kothari Fellowship		Post Doctoral FellowDec-2012-at University of DelhiMay-2014			Research (Post-Doctoral)		
							Kalindi College,
University of Delhi		date					
Research Interests/Specializ					× 11		21 21
Neuro-Endocrinology and Immuno-Endocrinology of Fishes and Reptiles, conservation of butterflies							
Administrative Assignments / Contribution to corporate life							

College level committee

- 1. Member, Admission Core Committee
- 2. Member, Purchase Committee 2015-2021
- 3. Member, Research Committee 2015-2021
- 4. Convenor, 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-convener, 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
- 21. Co-convener LEHREN 2024

# **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
- 15. Ayurveda and Nutrition
- 16. Sustainable ecotourism and entrepreneurship

# **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: 16 h-Index: 9 Total Impact Factor: 31.05 Total Citation: 364

- 1. Singh, V., & Joy, K. P., (2008). Immunocytochemical localization, HPLC characterization, and seasonal dynamics of vasotsocin 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 *Heteropnuestes 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**)
- 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. 9<sup>th</sup> 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)

- 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)
- 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 25hydroxycholesterol in a reptile: Seasonal variation and hormonal regulation. General and Comparative Endocrinology, 196, 91-99. (**IF 3.255**)
- 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), 4-6<sup>th</sup> 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 in 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.
- 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).
- 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.
- 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.
- 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.
- 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 Tagfalters" at Second National Symposium on "Environment: Greener future and awareness" organised at Deshbandhu College, University of Delhi, 19<sup>th</sup> 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 30<sup>th</sup> 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 Tagfalters: 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 27<sup>th</sup> 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 Endocrinolgy. 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 19<sup>th</sup> to 25<sup>th</sup> August 2015
- Attended a 6<sup>th</sup> Workshop on "Bioinformatics and molecular modelling in drug designing" organised at Dr. B.R. Ambedkar Center for Biomedical Research University of Delhi, from 21<sup>st</sup> -23<sup>rd</sup> January 2016.
- 6. Indo US Workshop and International Symposium on "Biological Timing and Health" organised by Department of Zoology, University of Delhi from 22<sup>nd</sup> -24<sup>th</sup> Feburary 2017.

- 7. Capacity Building training in "National Pension Scheme (NPS)" organised by Kalindi College, University of Delhi on21<sup>st</sup> March 2017.
- 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 9<sup>th</sup> and August 18<sup>th</sup> – 19<sup>th</sup> 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 15<sup>th</sup> -16<sup>th</sup> 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 perishible products of North East and its challenges" organised by IBSD Kalindi College on 6<sup>th</sup> 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 26<sup>th</sup> 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 23<sup>rd</sup> August 2019.
- 15.Participated in DBT sponsored workshop on "The Foldscope" at Department of Zoology, Kalindi College, University of Delhi on 24<sup>th</sup> 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 31<sup>st</sup> January 2020.
- 18. Participated in International webinar on "Covid-19 Pandemic: Challenges and recent advancement" organised by Jawahar Lal Nehru University, Delhi on 25<sup>th</sup> and 26<sup>th</sup> 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 5<sup>th</sup> 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 18<sup>th</sup> May 2020.
- 21. Participated in online conference on "Environmental Pollutants and Cancer" organised by Central University of Himachal Pradesh on 20<sup>th</sup> and 21<sup>st</sup> 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 27<sup>th</sup> 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 17<sup>th</sup> 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 National level five days FDP on "NAAC revised assessment and accreditation frame work" organised by IQAC, Mungasaji Maharaj Mahavidyalaya Darwha in association with HRDC Sant Gadge Baba Amravati University from 3-7 August 2021.

- 26. Hands on training session on "e-Content development using basic tools" organised by Kalindi College, University of Delhion 27 September 2021.
- 27. Participated in Two day workshop on "Microtomy: Principles and procedure" organised by Department of Zoology, Kirorimal College, University of Delhi from20-21 June 2023.

## Workshop/FDP Organised

- Organised a workshop in collaboration with WUS-DU on "Face Yoga" by Mrs. Manasi Gulati (Mrs. India Asia- International and International Yoga Expert) on 28<sup>th</sup> 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 10<sup>th</sup> 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. Organized as 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 22-28 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 15<sup>th</sup> -16<sup>th</sup> 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 28<sup>th</sup> June to 11<sup>th</sup> July 2019 at CPDHE, University of Delhi, Delhi.
- 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 27<sup>th</sup> May-1<sup>st</sup> June, 2020
- 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 5<sup>th</sup> -11<sup>th</sup> June, 2020
- 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 27<sup>th</sup> July 2020-10<sup>th</sup> August 2020.
- 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 1<sup>st</sup> October 2020-15<sup>th</sup> 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 12<sup>th</sup> 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.
- 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 20<sup>th</sup> 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 9-13<sup>th</sup> 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 on10<sup>th</sup> 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 24<sup>th</sup> July 2021
- **10.** Organised as Convener Research Committee in association with IQAC a National webinar on "Intellectual Property Rights in Academics" on 30<sup>th</sup> 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 on11t<sup>h</sup> November 2021.
- **12.** Organised as Convener Zoological Society a skill workshop on "Art of facing an Interview" on 25<sup>th</sup> 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 11<sup>th</sup> -12<sup>th</sup> April, 2022
- **14.** Organised as a program convener a workshop on "Cybersecurity" Department of Zoology, Kalindi College and Ministry of Electronics and Information Technology on 30-August 2022.
- **15.** Organised as a Coordinator Workshop on "Intellectual Property Rights-Patents and Design Filing" Research Committee and IQAC, Kalindi College, University of Delhi on 09 November 2022.
- **16.** Organised as a Convener of Intercollege Competition on Working Model "Innovation for sustainable Environment" Research committee, Kalindi College on 09-December 2022.

#### 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 4<sup>th</sup> September and 23<sup>rd</sup> 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 19<sup>th</sup> 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**

 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 ovarian catecholamine and steroids: effect of ovarian denervation in the catfish *Heteropneustes fossilis*" Total budget: Rs. 19,80000/-Status: Ongoing

## **Project: Minor**

 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/

- 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/-

- 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/-
- 6. Title of the Project: "An Assessment based study of Kalindi College Students' health status using behavioural and nutraceuticals components as tool".
  In house Project Code: S. No.
  Name Investigator Dr. Tarkeshwar, Dr. Manisha Arora Pandit, Dr. Varsha Singh Associate 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/-

7. Title of the Project: "Green Synthesis of Nanoparticles from Leaf Extract of Ocimum Sanctum and their Antibacterial properties".
In house Project Code: S. No.
Name Investigator Dr. Varsha Singh, Dr. Tarkeshwar, Dr. Shanuja Beri, Dr. Rajesh Kumar Meena Associate 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. 30,000/-

#### **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 Feburary 2019.
- 4. Judges for the Recitation competition conducted on the 2<sup>nd</sup> Anniversary of, "Chocolate Pe Charcha", dated 6<sup>th</sup> September 2020.