

PROF. (DR.) DEEPAK RAI BABBAR

- Professor & Former Chairperson
- Department of Zoology
- Kurukshetra University, Kurukshetra-136119
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- Address: #D-141, KUK Campus or V.P.O. Chaura, Tehsil-Gharaunda, District-Karnal-132114

EDUCATIONAL QUALIFICATIONS

- M. Sc. (Zoology) Gold Medalist with 80.1% marks (Distinction) & URS holder of KUK.
- Ph.D.: Study on the Ecology and Behaviour of Nilgai, *Boselaphus tragocamelus* Pallas
- NET-LS qualified during M.Sc. in Dec. 2005 and June 2006.
- <https://orcid.org/0000-0001-8539-961X> (ORCID), h-index: 9, Deepak Rai Babbar - Google Scholar

EDUCATIONAL ACHIEVEMENTS

S. No.	Examination	Year of Passing	University/ Board	Marks	% age of Marks	Division
1.	Ph. D.	2006-2011	K.U.K.	-	-	-
2.	NET-LS	Dec. 2005 June, 2006	UGC-CSIR	-	-	-
3.	M. Sc. Zoology	May, 2006	K.U.K.	801/1000	80.1%	Distinction
4.	B.Sc.	April, 2003	K.U.K.	1045/1450	72.06%	First
5.	12 th	March, 2000	H.B.S.E.	300/400	75%	First
6.	10 th	March, 1998	H.B.S.E.	414/600	69%	First

INSTITUTIONS/ORGANISATIONS SERVED (IN CHRONOLOGICAL ORDER)

S. No.	Post	Institution	From	To	Number of years
1.	Professor (Budgeted)	Department of Zoology, KUK	07.08.2023 Due date	Till date	Since 07.08.2023
2.	Chairperson	Department of Zoology, KUK	21.11.2021	20.11.2024	3 Years
3.	Associate Professor Zoology (Budgeted)	Department of Zoology, KUK	07.08.2020	06.08.2023	3 Years
4.	Assistant Professor Zoology (Budgeted)	Dayanand College, Hisar	07.08.2008	09.04.2012	12 Years
5.	Assistant Professor Zoology (Budgeted)	Department of Zoology, KUK	09.04.2012	06.08.2020	

HONOURS/AWARDS/CONTRIBUTION

- Gold Medalist with Distinction in M.Sc. Zoology at Department of Zoology, KUK
- Medal of Appreciation at 30th All India Congress of Zoology by Zoological Society of India
- Paryavaran Champion Award-2025 from WII, Dehradun under NMCG Project, Ministry of Jal Shakti, Government of India.
- Second runner up award in Wildlife Photography contest organized by TFRI, Jabalpur (MoEFCC).
- Certificate of Honour for academic services from 2017-22 as per KU-APPLAUSE policy.
- Appreciation from Vice-Chancellor KUK for additional significant work as Deputy Director Public Relations w.e.f. 08.05.2020 to 05.06.2024 and Dy. Env. Nodal Officer, KUK from 2021 to till date.
- Recorded First photographic record of Red-breasted Parakeet from Haryana State and published it.
- Published First Document of Haryana State Biodiversity Board as Birds of Ottu Lake Haryana (India)
- Appreciation from Vice-Chancellor KUK for significant work as NEP core committee member.
- Highest award of achievement in Dale-Carnegie training by K.U.K. in M.Sc. Zoology

TOTAL TEACHING EXPERIENCE: 18 Years (Regular)

- Under-graduate: 3.9 Years & Post-graduate: 14 Years

TOTAL RESEARCH EXPERIENCE: 20 Years

PH.D. GUIDANCE/SUPERVISION: Fourteen

(A) Successfully awarded Ph.D.: Seven (B) Registered Ph.D. students at present: Seven

RESEARCH PUBLICATIONS: 57 (Research Papers: 44; Books: 8; Book Chapters: 5)

THESIS EVALUATION/VIVA OF OTHER UNIVERSITIES/INSTITUTION: 31

INVITED TALK DELIVERED AS RESOURCE PERSON/-CUM-EVALUATOR: 58

CONFERENCES/WORKSHOP/SEMINAR/REFRESHER/SYMPOSIA ORGANIZED: 20

CONFERENCES/WORKSHOP/SEMINAR/REFRESHER/SYMPOSIA ATTENDED: 52

RESEARCH PAPERS PRESENTED IN CONFERENCES: 14

RESEARCH PROJECTS: 2

ACADEMIC & ADMINISTRATIVE RESPONSIBILITY UNDERTAKEN/POSITIONS HELD: 66

ACADEMIC & ADMINISTRATIVE RESPONSIBILITY UNDERTAKEN/POSITIONS HELD

1. Professor of Zoology, Department of Zoology, KUK since 07.08.2023.
2. Chairperson, Department of Zoology, KUK w.e.f. 21.11.2021 to 20.11.2024
3. Chairperson, PGBOS & UGBOS, Zoology; Adhoc committee in Forensic Science and Anthropology & Departmental Research Advisory committee w.e.f. 21.11.2021 to 20.11.2024.
4. Outside Expert member, board of studies, CDLU Sirsa w.e.f. 05.01.2026 to 04.01.2028
5. Outside Expert Member, PGBOS, MDU w.e.f. 21.01.2022 to 20.01.2024.
6. Outside Expert Member, DRC, CBLU, Bhiwani w.e.f. 30.06.2025 to 29.06.2027.
7. Outside Expert Member, UGBOS, MDU w.e.f. 24.09.2025 to 23.09.2027.
8. Editorial Board Member, Journal of Applied and Natural Science (Scopus Indexed, 1.2. CiteScore)
9. Outside Expert Member, UGBOS, CRSU Jind from 01.09.2023 to till date
10. Outside Expert Member, PGBOS&R, CRSU Jind from 08.11.2024 to 07.11.2026
11. Member, NEP PG core committee members of KUK.
12. Reviewer of a numbers of International and National Journals
13. Deputy Director, Public Relations, KUK w.e.f. 08.05.2020 to 06.05.2024
14. Media Advisor, Journal of Haryana Studies, KUK w.e.f. 20.02.2023
15. Media Advisor, Kurukshetra University Research Journal, KUK w.e.f. 13.02.2023
16. Dy. Nodal Officer, Eco club Kurukshetra University, Kurukshetra w.e.f. 06.08.2021 to till date
17. Outside expert Member, Board of Faculty (BOF) for faculty of Life Sciences JCBUS&T, YMCA Faridabad, Haryana w.e.f. 25.06.2021.
18. Elected Member, Court, Kurukshetra University, Kurukshetra (25, Jan. 2022- 24, Jan. 2024).
19. Member, Ad hoc Committee in Anthropology from 06.12.2021 to 05.12.2023.
20. Member, Board of PG Studies in Zoology as Professor from 07.08.2023
21. Member, Board of PG Studies in Zoology as Asso. Professor from 09.04.2021 to 08.04.2023
22. Member, Ad hoc Committee in forensic science from 26.03.2021 to 25.03.2023.
23. Member, Board of UG Studies in Zoology from 21.03.2021 to 20.03.2023. (Promotion)
24. Member, Board of UG Studies in Zoology from 27.02.2021 to 20.03.2021. (Promotion)
25. Member, Ad hoc Committee in Anthropology from 06.12.2019 to 05.12.2021.
26. President, Zoological Association, Kurukshetra University, Kurukshetra (2019-21). & 21-24.
27. President, Kurukshetra University Teachers' Association (w.e.f. 01.05.2025 for Session 2024-25, 26.08.2025)
28. Vice-President, Kurukshetra University Teachers' Association (Session November 2024-25)
29. Vice-President, Kurukshetra University Teachers' Club (Session November 2020-22)
30. Member, Board of PG Studies in Zoology from 11.09.2019 to 20.03.2021.
31. Member, Ad hoc Committee in forensic science from 26.03.2019 to 25.03.2021.
32. Member, Departmental Research Advisory committee from 2018 to till date
33. Male Member in STEM for the session 2019-20.
34. Member, Research scholarship selection committee for the session 2017-20 (3).
35. Vice-President, Kurukshetra University Teachers' Association (Session 2019-20)
36. Vice-President, Kurukshetra University Teachers' Association (Session 2017-18)
37. Member, Executive Council, Kurukshetra University Teachers' Association (2016-17).
38. Member, Ad hoc Committee in Anthropology from 05.12.2017 to 04.12.2019.
39. Member, Ad hoc Committee in forensic science from 16.03.2017 to 15.03.2019.
40. Member, Board of PG Studies in Zoology from 17.02.2017 to 16.02.2019.

41. Member, Board of PG Studies in Zoology from 18.04.2012 to 17.04.2014.
42. Member, Board of UG Studies in Zoology from 04.09.2013 to 03.09.2015.
43. Elected Member, Court, Kurukshetra University, Kurukshetra (Jan. 2014-Jan.16).
44. Elected Member, Academic council, KUK (March, 2015-Jan.16).
45. Convener/Member Inspection committees/University Nominees for colleges in NAAC/Observer, member flying & Centre superintendent in university exams.
46. Member, Admission committee from 2012 to till date in Deptt. of Zoology, KUK
47. In-charge, Placement Cell, Department of Zoology, KUK
48. Jury member at State levels and district levels science exhibitions.
49. Jury member at various events at different departments/Rostrum of KUK
50. Working for extension activities involved in wildlife awareness; more than 500 post graduate students have done their field visits training on identification of avian fauna during their master under my supervision.
51. Worked as Member; UGC assisted five years SAP in thrust area of biodiversity conservation at department of Zoology, KUK.
52. Actively worked for implementation of NEP, CBCS and LOCF system in the subject of Zoology, forensic science and anthropology at UG and PG level.
53. Member, Research scholarship selection committee for the session 2017-20
54. Secretary, Teachers' Club, Kurukshetra University, Kurukshetra (Nov. 2014-Nov. 16).
55. Asst. Secretary, Teachers' Club, KUK (Nov. 2012-Nov. 2014).
56. Member, Executive Council, Kurukshetra University Teachers' Association (2014-15).
57. President, Zoological Association, Kurukshetra University, Kurukshetra (2013-15).
58. Member, Zoological Association, Kurukshetra University, Kurukshetra (2012-13;2015-19).
59. Secretary, Zoological Association, Kurukshetra University, Kurukshetra (2005-06).
60. Chief guests at annual functions of Schools.
61. Career guidance/Motivational talks at various levels
62. Delivered many Radio talks, news articles in the area of environmental/wildlife conservation.
63. Life member, Indian Science Congress Association (L-30715) from 2016.
64. Life member, Indian Ecological Society, PAU Ludhiana (L-540) from 2021.
65. Life Member, Kurukshetra University, Kurukshetra Alumni Association
66. Member, Kurukshetra University Teachers' Association

DETAIL OF Ph.D. SUPERVISED/ONGOING

1. Parveen Kumar Vats. **28.09.2018.** A Study on Avian Diversity of Kalesar National Park, Haryana (India).
2. Rakesh. **27.08.2019.** A Study on Avian Diversity of Basai Wetlands, Haryana (India).
3. Jyoti. **04.03.2021.** A Study on the Ecology and Behaviour of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758)
3. Anju. **20.04.2021.** Diversity of Otolith and Scale in Freshwater Fishes of Family Cyprinidae (Cypriniformes) from Northern India
4. Kalpana. **30.12.2021.** A Study on the Ecology and Behaviour of Sambar, *Rusa unicolor* (Kerr, 1792)
6. Vanita. **14.12.2022.** Status of the Bird Assemblages in and Around Selected Wetlands of District Sirsa, Haryana (India)
7. Aruna Yadav. **27.03.2025.** Avifaunal potential and assemblages of Mandothi Wetlands, Haryana (India)
8. Piyush Goyal. (2021). Assessment of Avifaunal Assemblage at Selected Potential Bird Areas of Kurukshetra, Haryana (India)

9. Ritu Pal Bhura. (2022). Diversity and Status of Butterfly fauna (Lepidoptera: Rhopalocera) of district Kurukshetra, Haryana.
10. Anju. (2022). Status and Community composition of Avian Diversity in Manger Bani Forest, Aravalli Landscape, Haryana (India).
11. Poonam. (2024) Diversity and Seasonal Variations of Lepidopterans in Urban Ecosystem of Kurukshetra, Haryana
12. Yashika- Enrolled, Course work completed
13. Sheetal- Enrolled, Course work completed
14. Anjali-Pursuing Course Work

RESEARCH PAPERS PUBLISHED

1. Chopra, G., Kandhwal, S., Kumar, P. and **Rai, D.** 2008. Opinion survey of rodent menace and control in commercial poultry facilities. *Pestology*, **XXXII** (2): 61-65.
2. Chopra, G., Kandhwal, S., Kumar, P. and **Rai, D.** 2008. Pattern of Rodent Distribution and Infestation in Commercial Poultry Facilities in Haryana. *Environment and Ecology*, **26**(3): 1006-1009.
3. Chopra, G., Kandhwal, S., Kumar, P., **Rai, D.** and Gupta, S.K. 2009. Food preference behaviour of *Rattus rattus* L. infesting poultry farms. *J. Exp. Zool. India*, **12**(1): 107-111.
4. Chopra, G. and **Rai, D.** 2009. A study on the ecology of Nilgai (*Boselaphus tragocamelus* Pallas) and its status as an unconventional pest of agriculture in and around Beer-Sonty reserve forest, Haryana, India. *J. App. Nat. Sci.*, **1**(2): 245-249. **Cite Score: 1.2**, <https://doi.org/10.31018/jans.v1i2.81>.
5. Chopra, G. and **Rai, D.** 2010. Ecological studies on population structure and food habits of Nilgai, *Boselaphus tragocamelus* Pallas (Artiodactyla, Bovidae) in Saraswati Plantation wildlife sanctuary, Haryana (India). *J. Exp. Zool. India*, **13**(1): 43-49.
6. **Rai, D. 2011.** Biodiversity Conservation: Need of Hour. *In proceedings:* National Seminar on environmental degradation: issues and remedies (11 February, 2011), Dayanand P.G. College, Hisar, Sponsored by Higher Education commissioner, Haryana, 209pp.
7. Chopra, G., Tyor, A. K., Kumari, S. and **Rai, D.** 2012. Status and conservation of avian fauna of Sultanpur National Park Gurgaon, Haryana (India). *Journal of Applied and Natural Science*, **4**(2): 207-213. **Cite Score: 1.2**, <https://doi.org/10.31018/jans.v4i2.251>
8. Chopra, G., Kumar, A. and **Rai, D.** 2012. Clutch Size and Egg Morphometric Parameters of House Sparrow, *Passer domesticus* (Linnaeus, 1758) in District Kurukshetra, Haryana (India). *Researcher*, **4**(6): 56-61.
9. Chopra, G., Kumar, A. and **Rai, D.** 2016. Population size of House Sparrow, *Passer domesticus* (Linnaeus, 1758) and stress factors affecting its number in selected habitats in Thanesar in district Kurukshetra, Haryana (India). *International Journal of Applied and Pure Science and Agriculture*, **2**(2): 41-49.
10. Kumar, P., **Rai, D.** and Gupta, S. K. 2016. Wetland Bird Assemblage in Rural Ponds of Kurukshetra, India. *Waterbird*, USA, **39**(1): 86-98. DOI: <https://doi.org/10.1675/063.039.0111>, **TR Impact Factor 0.679**
11. **Rai, D.**, Chopra, G., Gulia, R. and Vats, P. 2017. Avian diversity of Basai Wetlands, Haryana (India): An IBA site. *J. Exp. Zool. India*, **20**(1): 109-117.
12. **Rai, D.**, Vats, P. and Gulia, R. 2017. Avifaunal status of Kalesar National Park, Haryana (India). *J. Exp. Zool. India*, **20**(2): 827-833.
13. **Rai, D.**, Chopra, G. and Gulia, R. 2017. Status of migratory avifaunal diversity of Basai wetland, Haryana (India). *J. Exp. Zool. India*, **20**(2): 981-985.

14. Chopra, G., **Rai, D.** and Jyoti. 2017. Avian diversity and their status in and around Bhindawas Bird Sanctuary, Haryana (India). *J. App. Nat. Sci.*, **9**(3): 1475-1481. **Cite Score: 1.2**, <https://doi.org/10.31018/jans.v9i3.1387>
15. **Rai, D.** and Jyoti. 2018. Status and ecological aspects of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758) through opinion surveys in and around Hisar, Haryana (India). *J. Exp. Zool. India*, **21**(2): 1195-1201. **Cite Score: 1.2**,
16. Rani, A., **Rai, D.** and Tyor, A.K. 2019. Morphometrics analysis of Sagitta otolith in Pool Barb, *Puntius sophore* (Hamilton, 1822). *Journal of Morphological Sciences*, **36**(2): 085-090, DOI <https://doi.org/10.1055/s-0039-1683911>
17. **Rai, D.** and Kalpana. 2019. Opinion survey on the ecology of Sambar, *Rusa unicolor* (Artiodactyla, Cervidae) and its status with respect to crop damage in districts Jhunjhunu and Churu, Rajasthan (India). *J. App. Nat. Sci.*, **11**(2): 468-477. **Cite Score: 1.2**, <https://doi.org/10.31018/jans.v11i2.2092>
18. **Rai, D.** and Jyoti. 2019. Crowding, Group size and Population structure of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758) in semi-arid habitat of Haryana, India. *Journal of Threatened Taxa*, **11**(9): 1-10. **Cite Score: 1.0**, DOI: <https://doi.org/10.11609/jott.4788.11.9.14194-14203>.
19. **Rai, D.** and Jyoti. 2019. Degree of crop damage by Blackbuck in and around Hisar, Haryana (India) and its management. *Pestology*, **XLIII**(10): 38-45.
20. **Rai, D.**, Gulia, R., Chopra, G. and Kumar, P. 2019. Avifaunal community composition and current status in Basai wetlands: an important bird area in Haryana, India. *Indian forester*, **145**(10): 971-985. <https://doi.org/10.36808/if/2019/v145i10/149234>
21. **Rai, D.** and Vanita. 2021. Community Composition and Status of Avifaunal diversity in and around Ottu Reservoir of Sirsa, Haryana, India. *J. App. Nat. Sci.*, **13**(2): 593-606. **Cite Score: 1.2**, DOI <https://doi.org/10.31018/jans.v13i2.2666>
22. Jyoti and **Rai, D.** 2021. Measures of sociality, social organization and population structure in Blackbuck, *Antilope cervicapra* (Linnaeus, 1758). *Proceedings of the Zoological Society*. **74**(3):268-279, **Cite Score: 2.1**, DOI <https://doi.org/10.1007/s12595-021-00371-9>
23. **Rai, D.** and Kalpana. 2021. Group size, Crowding, and Age class composition of the threatened Sambar, *Rusa unicolor* (Kerr, 1792) (Mammalia: Cetartiodactyla: Cervidae) in the semi-arid regions of northeastern Rajasthan, India. *Journal of Threatened Taxa*, **13**(8): 18975-18985. **Cite Score: 1.0**, DOI: <https://doi.org/10.11609/jott.5784.13.8.18975-18985>
24. **Rai, D.** and Jyoti. 2021. Ecological studies on the population composition, group size and diurnal activity pattern of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758) (Mammalia: Cetartiodactyla: Bovidae) in western Haryana, India. *Indian Forester*, **147**(10): 982-991. <https://doi.org/10.36808/if/2021/v147i10/154627>
25. Saini, K., Sidhu. A.K. and **Deepak Rai Babbar**. **2021**. Distribution, ecological and taxonomic study of *Locusta migratoria migratoria* (Linnaeus, 1758) and long term monitoring of its outbreak in Cold desert of Ladakh (UT) India. *Journal of Entomology and Zoology Studies*, **9**(4): 357-361. DOI: <https://doi.org/10.22271/j.ento.2021.v9.i4e.8800>
26. **Rai, D.**, Kalpana and Jyoti. 2021. Degree of crop damage by Sambar in North-East Rajasthan, India and its management. *Pestology*, **XLV** (10): 25-33.
27. **Rai, D.** and Vanita. 2022. Bird Community Composition and Current Status in and around Selected Wetlands of District Sirsa, Haryana (India). *Indian Forester*, **148**(02): 223-230. <https://doi.org/10.36808/if/2022/v148i2/160962>

28. Rai, D. and Rani, A. 2023. Comparative Otolith Morphology and Morphometry of Cyprinid Fishes from Indian Waters. *Biology Bulletin*, ISSN 1062-3590, Vol. 49, Suppl. 2, pp. S113–S121. © Pleiades Publishing, Inc. (IF=0.534). <https://doi.org/10.1134/S1062359022140138>

29. **Rai, D.**, Vats, P.K. 2023. A study on Avian Diversity of Kalesar National Park, Haryana, India. *J. Exp. Zool. India*, Vol. 26(1), pp. 1285-1299. DOI: <https://doi.org/10.51470/jez.2023.26.1.1285>

30. Rai, D. & Yadav, A. 2023. **Avian Community Composition in and around Mandothi Wetlands, Haryana, India. JANS. J. App. Nat. Sci.**, 15(1): 408-421. **Cite Score: 1.2, DOI: https://doi.org/10.31018/jans.v15i1.4385**

31. Rai, D., & Vanita (2023). Structural Assemblages of Avian Community in and around Ottu Reservoir, Sirsa, Haryana (India). *Indian Forester*, 149(10), 1048-1059. <https://doi.org/10.36808/if/2023/v149i10/169258>

32. Sonia Rani, Rani, A. & Rai, D. 2023. Assessment of Diversity and IUCN Status of Birds at Sultanpur National Park (Haryana) India. *Biol Bull Russ Acad Sci.*, 50(6), 1304–1315. <https://doi.org/10.1134/S1062359023600915>, **TR Impact Factor 0.5**

33. Yadav, A. & Rai, D. 2024. Diversity and IUCN Status of Winter Migratory Avifauna of Mandothi Wetlands, Haryana (India). *Biol Bull Russ Acad Sci*, 51(4), 1197–1205. <https://doi.org/10.1134/S1062359023606572>, **TR Impact Factor 0.5**

34. Ritu Pal Bhura and Deepak Rai. 2024. Diversity of Butterfly Fauna in and Around Tehsil Pehowa, District Kurukshetra, Haryana (India). *Voyager*, XV, Sept. 2024 (Special Issue), Article No. 03 pp.18-25. DOI: <https://doi.org/10.31995/voyager.2024.v15.SI.003>

35. Anju and Deepak Rai. 2024. Avian Diversity of Managar Bani Forest, Aravalli Landscape, Haryana, India. *Voyager*, XV, Sept. 2024 (Special Issue), Article No. 04 pp.26-40. DOI: <https://doi.org/10.31995/voyager.2024.v15.SI.004>

36. Bhura, R. P. & Rai, D. 2025. Butterfly diversity (Lepidoptera: Rhopalocera) of Kurukshetra university, Haryana, India. *Munis Entomology & Zoology*, 20 (2): 2275-2283.

37. Rai, D., & Goyal, P. (2025). Conservation status of Birds in Chhilchhila Wildlife Sanctuary: A Protected bird area in Haryana, India. *Indian Forester*, 151(5), 465–470. <https://doi.org/10.36808/if/2025/v15i5/170682>

38. Ashish Kumar Arya, Medha Durgapal, Kamal Kant Joshi, Vinaya Kumar Sethi, Santosh Sharma, & Deepak Rai. 2025. The Role of Chemical Signals in Avian Communication: A Review. *Sustainable Science Letters*, 1(1), 26-32. <https://journal.rpmt-india.org/ssl/article/view/01-01-04>

39. Aruna Yadav, Deepak Rai, Piyush Goyal, Anju Anju, Ritu Pal Bhura, Ashish Kumar Arya. (2025). First photographic record of Red-breasted Parakeet Psittacula alexandri (Linnaeus, 1758) (Psittaciformes: Psittaculidae) from Haryana state in India. *Rivista Italiana Di Ornitologia-Research in ornithology*, 95(2): 24-29. **Cite Score: 0.6**, <https://doi.org/10.4081/rio.2025.903>

40. Piyush Goyal, **Deepak Rai** & Sandeep Kumar. 2025. Changing land use and land cover dynamics in Chhilchhila Wildlife Sanctuary, Haryana, India: A winter migratory bird study. *Environmental Monitoring and Assessment*, 197(10):1-19. **(Springer, Published online, 5 year TR Impact factor 3.2)**, <https://doi.org/10.1007/s10661-025-14523-3>

41. **Deepak Rai** & Ritu Pal Bhura. 2025. Assessment of Diversity, Abundance and Seasonal Dynamics of Butterfly Fauna of District Kurukshetra, Haryana, India. *International Journal of Tropical Insect Science*, (Springer, five years IF 1.3 TR). <https://doi.org/10.1007/s42690-025-01628-y>

42. Piyush Goyal and **Deepak Rai**. 2025. Avifaunal diversity and status of Chhilchhila Wildlife Sanctuary, India. *Ornis Hungarica* 33 (2):108-126. DOI: 10.2478/orhu-2025-0023 (**TR IF 0.6**)

43. Aruna Yadav and **Deepak Rai**. 2025. Seasonal variations and migration phenology of the avifauna of Mandothi wetlands, India. *Ornis Hungarica* 33 (2):1-21. DOI: 10.2478/orhu-2025-0017 (**TR IF 0.6**)
44. Anju and **Deepak Rai**. 2025. Preliminary Report on Avifaunal Diversity of Mangar-Bani Forest, Aravalli Landscape, Haryana, India. *National Academy Science Letters*, (**IF 1.3 TR, Accepted**)

BOOKS PUBLISHED

1. Dr. Deepak Rai, Piyush Goyal, Gaurav Kumar, and Vanita. 2021. *Common Birds of Chhilchhila Wildlife Sanctuary Haryana (India)*. ISBN: 978-93-90648-23-8. Rathore Academic Research Publications, New Delhi-110062.
2. Deepak Rai, Piyush Goyal and Vanita. 2022. *Birds of Basai Wetlands Haryana (India)*. ISBN: 978-93-90648-15-3. Rathore Academic Research Publications, New Delhi-110062.
3. Deepak Rai. 2022. *Nilgai*. ISBN: 978-93-90648-26-9. Rathore Academic Research Publications, New Delhi-110062.
4. Deepak Rai and Girish Chopra. 2022. *Boselaphus tragocamelus* (Pallas, 1766) A Study on the Ecology of Nilgai. ISBN: 978-620-4-74356-1. Lambert Academic Publishing. OmniScriptum SRL, Str. Armeneasca 28/1, office 1, Chisinau, MD-2012, Republic of Moldova, Europe.
5. Deepak Rai and Jyoti. 2023. *Blackbuck*. ISBN: 978-93-90648-52-8. RAR Publications, New Delhi-110062.
6. Deepak Rai and Kalpana. 2023. *Sambar*. ISBN: 978-93-90648-53-5. RAR Publications, New Delhi-110062.
7. Sanjay Sheoran, Deepak Rai Babbar and Suresh Kumar. 2023. Population and Community Ecology. ISBN: 978-93-91798-44-4. Academic Publications.
8. Vanita, Deepak Rai and Sanjeev Goyal. 2023. *Birds of Ottu*. ISBN: 978-81-962563-3-3. Haryana State Biodiversity Board, Panchkula, Haryana. (First Published documents of the HSBB).

BOOK CHAPTERS PUBLISHED

1. Kumar, P., Gupta, S. K. and **Rai, D.** 2016. Diversity and Conservation Status of Wetland Birds in Trans-Gangetic Region of Haryana, India. *Population, Development and Environment: An Indian Experience*, Manakin Press, New Delhi. (**Book Chapter**)
2. Kumar, P., Gupta, S. K., **Rai, D.**, and Sharma, A. 2016. Avifaunal Diversity of District Kurukshetra, Haryana, India. *Population, Development and Environment: An Indian Experience*, Manakin Press, New Delhi. (**Book Chapter**)
3. Jyoti and **Rai, D.** 2019. Ecological studies on group size and age class composition of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758) in Haryana (India). In: Recent development in Veterinary and Zoological Sciences, **Today and Tomorrow's Printers and Publishers**, New Delhi. (**Book Chapters**)
4. Kalpana and Rai, D. 2020. Population structure and Social organization of Sambar, *Rusa unicolor* (Kerr, 1792) in the semi-arid Habitats of Rajasthan (India). In: Ecology and Biodiversity, **Today and Tomorrow's Printers and Publishers**, New Delhi. (**Book Chapter**)
5. **Deepak Rai**. 2025. **Wildlife Trade as a vector for Zoonotic diseases**. In: **Wildlife Trade in India Conservation and Commerce**. Springer.

RESEARCH PROJECTS

1. A Study on the Diversity and Status of Vertebrate Macro-Fauna of Kurukshetra, Haryana by UGC Assistance grant from KUK (2013-14). Grant 95,000/-
2. Documentation of Avifaunal Potential of District Kurukshetra (Haryana) by UGC Assistance grant from KUK (Ongoing 2022-23). Grant 1,95,000/-

INVITED TALK/LECTURES DELIVERED

1. **Deepak Rai.** 20-07-2015. *Deforestation: Related Issues and Role of Forests in Environment Conservation.* Haryana Institute of Rural Development, Nilokheri.
2. **Deepak Rai.** 16-10-2015. *Sexual dimorphism in birds.* KVADAV College for Women, Karnal.
3. **Deepak Rai.** 04-08-2017. *Management of Vertebrate/rodent pests.* CCSHAU, Hisar and Kisan Kender, KKR.
4. **Deepak Rai.** 05-08-2017. *Symptoms of accidental poisoning and antidotes.* CCSHAU, Hisar and Kisan Kender, KKR.
5. **Deepak Rai.** 19.11.2017. *Talk on Counseling and motivating for competitive examinations.* Students' centre for career excellence, Directorate of students' welfare, CCSHAU, Hisar.
6. **Deepak Rai.** 19.11.2017. *Paleontology and evolutionary history.* Students' centre for career excellence, Directorate of students' welfare, CCSHAU, Hisar.
7. **Deepak Rai.** 19.11.2017. *Molecular evolution and its mechanism.* Students' centre for career excellence, Directorate of students' welfare, CCSHAU, Hisar.
8. **Deepak Rai.** 19.11.2017. *Animal Behaviour and taxonomy.* Students' centre for career excellence, Directorate of students' welfare, CCSHAU, Hisar.
9. **Deepak Rai.** 21.06.2018. *Basics of ecology and Environment.* Mahatma Gandhi AIS Coaching Institute, KUK.
10. **Deepak Rai.** 22.06.2018. *Attributes of population ecology.* Mahatma Gandhi AIS Coaching Institute, KUK.
11. **Deepak Rai.** 23.06.2018. *An introduction to Biodiversity.* Mahatma Gandhi AIS Coaching Institute, KUK.
12. **Deepak Rai.** 25.06.2018. *Wildlife conservation initiatives.* Mahatma Gandhi AIS Coaching Institute, KUK.
13. **Deepak Rai.** 30.06.2018. *Pollution, pollutants and natural hazards.* Mahatma Gandhi AIS Coaching Institute, KUK.
14. **Deepak Rai.** 17.10.2018. *People and Environment: Basics of ecology and Environment.* Mahatma Gandhi AIS Coaching Institute, KUK.
15. **Deepak Rai.** 17.10.2018. *People and Environment: Attributes of population ecology.* Mahatma Gandhi AIS Coaching Institute, KUK.
16. **Deepak Rai.** 18.10.2018. *People and Environment: An introduction to Biodiversity.* Mahatma Gandhi AIS Coaching Institute, KUK.
17. **Deepak Rai.** 18.10.2018. *People and Environment: Wildlife conservation initiatives.* Mahatma Gandhi AIS Coaching Institute, KUK.
18. **Deepak Rai.** 12-01-2019. *Environmental conservation: an Indian Scenario.* Organized by Commission for Scientific and Technical Terminology, Department of Higher Education, Ministry of Human Resource development, Government of India, New Delhi.
19. **Deepak Rai.** 11-02-2019. *Resource person at UGC-HRDC in refresher course. Field visits for Identification of Avian Fauna.* UGC-HRDC, KUK.
20. **Deepak Rai.** 12-02-2019. *Resource person at UGC-HRDC in refresher course. Protected area networking in Indian scenario and wildlife conservation.* UGC-HRDC, KUK.
21. **Deepak Rai.** 22.04.2019. *Protect our Species: Biodiversity and Wildlife Conservation.* In: Earth day celebration invited talk at Kurukshetra Panorama and Science Centre.

22. **Deepak Rai.** 14.11.2019. People and Environment-I. In: **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
23. **Deepak Rai.** 18.11.2019. People and Environment-II. In: **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
24. **Deepak Rai.** 20.11.2019. People and Environment-III. In: **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
25. **Deepak Rai.** 21.11.2019. People and Environment-IV. In: **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
26. **Deepak Rai.** 19.01.2021. **Wildlife and Environment conservation in India: How to study direct & indirect field observations?** Resource person and invited speaker in the national webinar organized by Dayanand College, Hisar.
27. **Deepak Rai.** 26.02.2021. Indian scenario of Wildlife conservation: How to study field observations? Resource person and invited speaker in the short term training and faculty development program, Gyan Ganga on Biodiversity: Conservation and Management jointly organized by Department of Zoology and Botany, Dungar College, Bikaner and Commissionerate, College Education, Rajasthan.
28. **Deepak Rai.** 26-02-2021. **Wildlife Conservation.** Resource person at FDP on Winter School in Life Sciences organized by FDC, PMMMNMTT and Department of Zoology, KUK.
29. **Deepak Rai.** 08-03-2021. **To Know our Environment, first step to Environmental Education.** Resource person at 2nd one month Gurudakhstha FIP organized by UGC-HRDC, KUK and Department of Education, KUK.
30. **Deepak Rai.** 06.07.2021. Higher Education System. **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
31. **Deepak Rai.** 07.07.2021. UGC and Higher Bodies of Higher Education. **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
32. **Deepak Rai.** 08.07.2021. Environmental Education. **Coaching-cum-Counseling Program for SC, BC and Minorities**, Mahatma Gandhi AIS Coaching Institute, KUK.
33. **Deepak Rai.** 12.02.2022. Environment Protection and various job prospectuses in Sciences. Organized by Placement Cell, Government College, Bherian (Pehowa).
34. **Deepak Rai.** 02.04.2022. Environment Conservation in India. NSS annual camp at DN college Hisar, Haryana.
35. **Deepak Rai.** 19.04.2022. Environment Conservation. One week inter disciplinary festivals of thoughts on the occasion of Golden jubilee year of the college at Guru Nanak Girls Khalsa College, Santpura, Yamuna Nagar.
36. Deepak Rai. 23.11.2022. How to identify Birds? Invited talk at USSMS, KUK.
37. **Deepak Rai.** 23-12-2022. **State of Environment Conservation in India & Identification of Birds.** Resource person at one month Gurudakhstha FIP organized by UGC-HRDC, KUK and Department of Education, KUK.
38. Deepak Rai. 28.08.2023. Environment Conservation. Resource person at refresher course organized by UGC-HRDC, RTM Nagpur University, Nagpur.
39. Deepak Rai. 03.10.2023. History and status of wildlife conservation in India. Indira Gandhi University Meerpur, Rewari.
40. Deepak Rai. 27.10.2023. Resource person at refresher course at Malviya Mission Teacher Training Centre of Kurukshetra University with Institute of Law, Kurukshetra University.

41. Deepak Rai. 04.11.2023. Practical Implementation of NEP-2020 with reference to Kurukshetra University, Kurukshetra. Govt. College Bheria Khera, Pehowa.
42. Deepak Rai. 05.01.2024. History and status of Environment conservation with reference to wildlife of India. Resource person at Refresher Course organized by Department of Zoology, DDU Gorakhpur University.
43. Deepak Rai. 12.01.2024. Sexual dimorphism and Identification of Avian Species. Resource person at Refresher Course organized by Department of Zoology, DDU Gorakhpur University.
44. Deepak Rai. 28.01.2024. Resource person at Panel discussion on various issues of environment sciences of refresher course organized by **UGC- Malaviya Mission Teacher Training Centre & Dept of Geography, KUK.**
45. Deepak Rai. 12.03.2024. Lecture at NSS camp IIHS KUK at Jyotisar Village.
46. Deepak Rai. 19.03.2024. History and Status of Environment Conservation with reference to Wildlife of India. Lecture at Arya College Panipat
47. Deepak Rai. 08.05.2024. History and Status of Environment Conservation with reference to Wildlife of India. Lecture at IIHS KUK
48. Deepak Rai. 25.06.2024. History and status of environment and wildlife conservation in India. International Conference on Monitoring Biodiversity for Action (ICMBA-2024), 25-27 June, 2024 at University of Kashmir, J & K.
49. Deepak Rai. 20.09.2024. Traditional knowledge of Environment conservation. 2nd National ENOs Conference. Indian Knowledge system for environment sustainability, climate action & Eco-Human Health. 20-21 sep, 2024, PU Chandigarh.
50. Deepak Rai. 13.12.2024. Environment Conservation: Brief History and Protected areas status. Resource person at Refresher Course organized by **UGC- Malaviya Mission Teacher Training Centre & Department of Zoology and Environmental Sciences, Punjabi University, Patiala, Punjab.**
51. Deepak Rai. 13.12.2024. Animal signs and morphological Identification in field. Resource person at Refresher Course organized by **UGC- Malaviya Mission Teacher Training Centre & Department of Zoology and Environmental Sciences, Punjabi University, Patiala, Punjab.**
52. Deepak Rai. 08.07.2025. Resource Person-cum-Expert at Haryana Institute of Rural Development (HIRD) for Post Training Assessment of newly recruited Block Development panchayat Officern (HCS, ALLIED), Batch-2025 on 8th July, 2025 at HIRD, Nilokheri.
53. Deepak Rai. 09.07.2025. History of Environment Conservation with reference to status of Protected Areas of India. Resource person at Refresher Course organized by **UGC-Malaviya Mission Teacher Training Centre & Department of Bio-Sciences, Himachal Pradesh University, Shimla.**
54. Deepak Rai. 15.10.2025. Resource person & Guest of Honour at One day Multidisciplinary International Weminar organized by PM College of Excellence Govt. Nehru PG College, Burhar, Shahdol, M.P.
55. Deepak Rai. 08.11.2025. Indian scenario of environmental conservation and its status. Resource Person at refresher course organized by UGC- Malaviya Mission Teacher Training Centre & Department of Geography IIHS, KUK.
56. Deepak Rai. 19.11.2025. Resource person-cum-expert evaluator at refresher course organized by UGC- Malaviya Mission Teacher Training Centre & Department of Geography IIHS, KUK.
57. Deepak Rai. 15-16.12.2025. Resource person at "Viksit Bharat Youth Leaders Dialogue, 2025-26" at the Kurukshetra University Campus from 15-17 December, 2025.
58. Deepak Rai. 23.01.2026. Chief Guest and resource person at seven days NSS camp inauguration at Govt. College Bheria Khera, Pehowa. Topic: Role of Youth as NSS volunteers

PAPERS PRESENTED

1. **Deepak Rai.** 2006. Nilgai, largest Asian antelope as an unconventional pest. U.G.C. sponsored national seminar on “Environmental Stresses and Biodiversity”, Nov. 8-9, 2006, K.V.A.D.A.V. College for Women, Karnal. (Oral)
2. **Deepak Rai.** 2007. Factors adversely affecting the population of largest Asian antelope, *Boselaphus tragocamelus* Pallas (Artiodactyla, Bovidae) in Saraswati Plantation wildlife sanctuary, Haryana: A preliminary study. *In:* UGC sponsored national seminar on “Water conservation-need of hour”. (Oral)
3. **Deepak Rai.** 2011. Study of herd composition and factors affecting the population of the largest Asian antelope, *Boselaphus tragocamelus* Pallas (Artiodactyla, Bovidae) in Saraswati Plantation Wildlife Sanctuary, Haryana (India). *In:* National Seminar on “Biodiversity-Impact of Global Change”, D.A.V. College (Lahore), Ambala City. (Oral)
4. **Deepak Rai.** 2011. Biodiversity Conservation: Need of Hour. *In:* National Seminar on “environmental degradation: issues and remedies”, Dayanand P.G. College, Hisar. (Oral)
5. **Deepak Rai.** 2011. Human Rights and Women: A Review. *In:* U.G.C. sponsored National Seminar on “Human Rights Education”, Dayanand P.G. College, Hisar. (Oral)
6. **Deepak Rai.** 2011. Sexual dimorphism in birds: A fascination of nature. *In:* UGC sponsored national seminar on “Global warming and its impacts on Biodiversity”, G. M. N. (P. G.) college Ambala cantt., Haryana. (Oral)
7. **Deepak Rai.** 2012. Indian Biodiversity: Status, Threats and Challenges Ahead. *In:* National Seminar on “environmental degradation: issues and remedies”, Dayanand P.G. College, Hisar. (Oral)
8. **Deepak Rai.** 2012. Environmental degradation *vis-à-vis* imbalances in----- *Boselaphus tragocamelus* Pallas. *In:* National conference on “Ecotoxicology and Health Hazards”, CRM Jat P.G. College, Hisar. (Oral)
9. **Deepak Rai.** 2015. Diversity----- Environ. *In:* National conference on “Biodiversity and Sustainable development”, CRM Jat P.G. College, Hisar. (Oral)
10. **Deepak Rai.** 2017. Status of Avian----- Haryana (India). *In:* Indian Science Congress Association, S.V. University, Tirupati. (Poster)
11. **Deepak Rai.** 2017. Avifaunal monitoring----- Haryana (India). *In:* Swarna Jayanti National conference on Biodiversity and Sustainable Utilization of Plant resources, Department of Botany, Kurukshetra University, Kurukshetra. (Poster)
12. **Deepak Rai.** 2017. Conservation status----- Haryana (India). *In:* Swarna Jayanti National conference on Biodiversity and Sustainable Utilization of Plant resources, Department of Botany, Kurukshetra University, Kurukshetra. (Poster)
13. **Deepak Rai.** (03-07, January, 2019). Ecological studies on group size and age class composition of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758) in Haryana (India). *In:* Animal, Veterinary and Fishery sciences, 106th Indian Science Congress, LPU, Phagwara, Jalandhar. (Oral)
14. **Deepak Rai.** (03-07, January, 2019). Variations in group size and Herd composition of Blackbuck, *Antilope cervicapra* (Linnaeus, 1758). *In:* Environmental sciences, 106th Indian Science Congress, LPU, Phagwara, Jalandhar. (Poster)

SEMINAR/WORKSHOP/CONFERENCE/SYMPOSIA/EXHIBITION ORGANISED

1. As **Member, Organizing Committee** in One day National seminar on Conventional and Novel Forensic Approaches **organized** by department of Zoology, KUK, 12 March, 2016.

2. As **Joint organizing Secretary** in Golden Jubilee Celebrations National conference on Evolving new Horizons of Zoological Sciences in Human Welfare **organized** by department of Zoology, KUK, 23-24 November, 2016.
3. As **Joint organizing Secretary** in UGC-SAP sponsored National Seminar on Challenges in Sustainable management of Natural resources **organized** by department of Zoology, KUK, 24-25 March, 2017.
4. As **Joint organizing Secretary** in 30th All India Congress of Zoology and National Seminar on **Advances in Zoology for Sustainable Development** **organized** by department of Zoology, KUK and Zoological Society of India, Gaya, February 15-17, 2018.
5. As Course **Co-coordinator** in HRDC-Academic Staff College Refresher Course in Environment Issues (All discipline) from 16.09.2019-28.09.2019 (14 Days).
6. As **Member, Advisory Committee** in one day seminar on Biodiversity and Environment Changes: Threats and Mitigation **organized** by Pt. Chiranjeevi Lal Sharma Govt. College, Karnal, 8, February 2020.
7. As **Member, Organizing Committee** in one day seminar on **Women innovators in STEM** **organized** by Women in STEM forum & KUTIC, KUK, 11, February 2020.
8. As **Member, Organizing Committee** in Science Day celebrations **organized** by KUTIC, KUK, 28, February 2020.
9. As **Member, Organizing Committee** in Science conclave-2020 **organized** by Faculty of Life Sciences, KUK, 03-04, March 2020.
10. As **Organizing Secretary** in Two days National online conference on Post COVID opportunities and challenges in Zoological Sciences **organized** by department of Zoology & CRC, RUSA, KUK, 29-30 June, 2020.
11. As **Coordinator** in Two days online workshop on Fish and Avian Diversity: Identification and Conservation **organized** by department of Zoology & FDC, PMMMNMTT, KUK, 03-04 March, 2021.
12. As **Member, Advisory Committee** in **Two days National Webinar on NAAC Assessment and Accreditation: An Overview** on 28-29 April, 2021 jointly organized by IQACs of Govt. Colleges Madlauda, Govt. college, Safidion & Govt College, Israna.
13. Member Organizing Committee National Environment Parliament 2022, KUK at University level 15 to 16 January, 2022.
14. Member Organizing Committee National Environment Parliament 2022, KUK at Regional level 23 January, 2022.
15. Member Organizing Committee Science Day Celebration, 2022 held on 25-26 February, 2022 on Integrated Approach in Science and Technology for Sustainable Future sponsored by Haryana State Council for Science, Innovation and Technology (HSCSIT), Panchkula, Haryana.
16. Dy. Nodal officer and member organizing committee, Awareness cum exhibition program on Mission LiFE (Lifestyle for Environment) on 18.03.2024 with EIACP PC-RP, WWF-India.
17. Member Organizing Committee National Environment Parliament 2022, KUK at University level 27 October, 2023.
18. Member Organizing Committee National Environment Parliament 2024, KUK at Regional level 2 January, 2025.
19. Organized workshop on Bird Identification by e-bird count India on 18.11.2024 at Department of Zoology, Kurukshetra University, Kurukshetra.
20. As **Joint Organizing Secretary, Organizing Committee** in Science conclave-2024 **organized** by Faculty of Life Sciences, KUK, 04-05, February 2025.

SEMINAR/WORKSHOP/CONFERENCE/SYMPOSIA/REFRESHERS ATTENDED

1. **Dale-Carnegie** training held at K.U.K. especially for toppers of various departments in **session 2005-2006 by the DSW of the University.**
2. 21st National Symposium on **Recent Advances in Life Sciences and Environmental Conservation in Welfare of Human Society** February 03-05, 2006 organized by Zoology Department, Kurukshetra University, Kurukshetra and ISLS, Kanpur.
3. U.G.C. sponsored national seminar on **Environmental Stresses and Biodiversity** November 8-9, 2006 organized by K.V.A.D.A.V. College for Women, Karnal (Haryana).
4. U.G.C. sponsored seminar on **Biodiversity in North Western India: Status, Conservation and Future Prospectus** November 25, 2006 organized by Mukand Lal National College, Yamuna Nagar-135001, Haryana.
5. U.G.C. sponsored national seminar on **Water conservation-need of the hour** September 28-29, 2007 organized by G.M.N. college Ambala cantt., Haryana.
6. Ministry of Earth sciences, Govt. of India and UGC sponsored national seminar on **Water Crisis and Remedial Management** November 21-22, 2007 organized by K.V.A.D.A.V. College for Women, Karnal (Haryana).
7. UGC sponsored regional seminar on **Environmental imbalances-causes and cure** December 8, 2007 organized by Arya Kanya Mahavidyalaya, Shahabad Markanda (Haryana).
8. U.G.C. sponsored national seminar on **Role of Biotechnology in Environment Management** January 12-13, 2008 organized by Dyal Singh College, Karnal.
9. National seminar on **Technical advances in environment management and applied zoology** January 23-25, 2008 organized by Zoology Department, Kurukshetra University, Kurukshetra.
10. **Workshop on Patent Awareness** on April 5, 2008 organized by UIET, K.U. Kurukshetra and sponsored by Patent Information Centre, HSCST, DST, Hisar, Haryana and TIFAC, DST, Govt. of India, New Delhi.
11. **UGC sponsored orientation programme** from 14.09.2009 to 10.10.2009 organized by UGC-Academic Staff College, GJUS&T, Hisar.
12. National seminar on **Biodiversity: concerns and solution** November 20, 2009 organized by Department of Botany, M. D. University Rohtak.
13. DBT, DST, UGC & CSIR sponsored **International Colloquium on Biotechnology** November 27-28, 2009 organized by DAV college Jalandhar.
14. National conference on **Trends in Biotechnology** February 15-16, 2010 organized by The living Blue Print Society, Govt. P.G. college, Sec.-14, Gurgaon sponsored by Higher Education Commission Haryana.
15. AICTE sponsored National conference on **Environmental Degradation: Effects, Challenges & Remedies** February 25-27, 2010 organized by JCDM college of Engineering Sirsa, Haryana.
16. National workshop on **Environment and Pollution Awareness** March 20, 2010 organized by G.V.M. Girls College, Sonepat and sponsored by Higher Education Commission, Haryana.
17. National seminar on **Computing life: Raw to Defined** March 27, 2010, organized by Department of Zoology, M. D. University, Rohtak, Haryana and sponsored by Higher Education commissioner, Haryana.
18. National Seminar on **Biodiversity-Impact of Global Change**, January 22, 2011 organized by Faculty of Life sciences, D.A.V. College (Lahore), Ambala City.

19. National Seminar on **Environmental Degradation: Issues and Remedies**, February 11, 2011 organized by Dayanand P.G. College, Hisar.
20. U.G.C. sponsored National Seminar on **Human Rights Education**, February 12, 2011 organized by Dayanand P.G. College, Hisar.
21. U.G.C. sponsored National Seminar on **Role of Women in Freedom movement of India**, March 8-9, 2011 organized by Dayanand P.G. College, Hisar.
22. **UGC sponsored refresher course in Bio-science** from 28.4.2011 to 18.5.2011 organized by UGC-Academic Staff College, HPU, Shimla.
23. U.G.C. sponsored National Seminar on **Global warming and its impacts on Biodiversity**, November 8-9, 2011 organized by G.M.N. (P. G.) college Ambala cantt., Haryana.
24. National Seminar on **Environmental Degradation: Issues and Remedies**, February 28, 2012 organized by Dayanand P.G. College, Hisar.
25. UGC sponsored National conference on **Ecotoxicology and Health Hazards**, March 24, 2012 organized by CRM Jat college, Hisar.
26. One day workshop on **Save the Girl Child** held on August 23, 2012 organized by Women Study Centre, KUK.
27. UGC sponsored short term course from 03.10.2012 to 09.10.2012 organized by UGC-Academic Staff College, KUK, Kurukshetra. (7 days)
28. **DST Sponsored One week training Programme** on “Forest ecosystem, Biodiversity and Climate Change: Vulnerabilities and adaptation Strategies” December 09-13, 2013 organized by ICFRE, Dehradun.
29. One day workshop on **Innovative methodologies in teaching of life science and biomedical laboratory courses** held on August1, 2014 organized by MLN College Yamuna Nagar.
30. **UGC sponsored refresher course in Environment Studies** from 18.12.2014 to 07.01.2015 organized by UGC-Academic Staff College, KUK, Kurukshetra.
31. National conference on Biodiversity and Sustainable development, CRM Jat P.G. College, Hisar.
32. **104th Indian Science Congress** held at S.V. University, Tirupati, A.P. from January 03-07, 2017.
33. Swarna Jayanti National conference on Biodiversity and Sustainable Utilization of Plant resources held on February 17-18, 2017, organized by Department of Botany, Kurukshetra University, Kurukshetra.
34. **DST Training Workshop** and National training programme for scientists and technologists working in Government sectors on **Advances in Wildlife Conservation** organized by Wildlife Institute of India, Dehradun, March 12-16, 2018.
35. Workshop on **Asian Big Cats' Conservation Genetics** organized by AMITY Institute of Forestry and Wildlife & College of Veterinary Medicine, Seoul National University, Seoul, Republic of Korea, March 21-23, 2018.
36. **One week Short term Course** in E-Learning Technologies (27.08.2018-01.09.2018) organized by UGC-HRDC, KUK.
37. **106th Indian Science Congress** held at LPU, Phagwara, Jalandhar from January 03-07, 2019.
38. Attended One Day National Seminar on **Draft National Education Policy, 2019** on July 24, 2019 organized by FDC, KUK.
39. **DST Training Workshop** and National training programme for scientists and technologists working in Government sectors on **Biodiversity Conservation** organized by Wildlife Institute of India, Dehradun, November 04-08, 2019.

40. Two Days Webinar on **Digital platforms and Resources for Effective Teaching and Learning in Higher Education** on April 27-28, 2020 organized by FDC, KUK.
41. **One Day Webinar on Enhancing Research Effectiveness using Scopus, Science direct and Mendeley** on May 01, 2020 organized by FDC, KUK
42. **Two days National symposium on Avian Biology in conjunction with '3rd Meeting of Association of Avian Biologists in India' on 30th-31st March, 2021 organized by Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar, India.**
43. **National webinar on Biodiversity & Its conservation on 22 April 2021 organized by Department of Zoology & FDP Cell (under the aegis of IQAC), Arya P.G. College, Panipat (Haryana).**
44. **Two days National Webinar on NAAC Assessment and Accreditation: An Overview** on 28-29 April, 2021 jointly organized by IQACs of Govt. Colleges Madlauda, Govt. college, Safidon & Govt College, Israna.
45. **International webinar on Current Trends in Impact of Toxicants on Biodiversity and human health** on 18th June 2021 organized by Department of Zoology, The National College, Autonomous, Basavanagudi, Bengaluru.
46. **International webinar on Sensitizing Human responses to Environmental Concerns** on 30 June 2021 organized by Guru Nanak Girls College Yamunanagar.
47. **Workshop at Ambala SD college on 28 july, 21**
48. **Participated as member committee in workshop for designing of syllabus for YMCA in 2021-22**
49. **One day Workshop on Awareness Programme on Gender sensitization organized by ICC, KUK on 22 March, 2022.**
50. **Participated as member committee in workshop for designing of syllabus for YMCA in August 2024.**
51. International Conference on Monitoring Biodiversity for Action (ICMBA-2024), 25-27 June, 2024 at University of Kashmir, J & K.
52. Workshop on Bird Identification by e-bird count India on 18.11.2024 at Department of Zoology, Kurukshetra University, Kurukshetra.

Ph.D. EVALUATOR/REVIEWER OF JOURNALS/PAPER SETTER

1. Ph.D. Evaluator, Forest research Institute (FRI, WII), Dehradun, UK. and Berhampur University, Orissa
2. Thesis evaluator of Kashmir University, CCSHAU, Hisar; PAU, Ludhiana and HPU Shimla.
3. Thesis evaluator Sourasth University, Rajkot, Delhi University and MGSU Bikaner
4. Thesis evaluator Banashthali University, Banashthali, AcSIR, & Amity University, Noida
5. Paper setter at Himachal Pradesh Public service commission, Central University of Jammu, HAU, KUK, CBLU, CDLU, FRI, PAU, YMCA, IGU, GJU, SGGSWU.
6. Reviewer of a numbers of International and National Journals.

CO-CURRICULAR ACTIVITIES

1. **1st prize in Science Quiz held on Science Day at K.U.K. organized by Dean Faculty of Science in February, 2006.**
2. **2nd prize in Science Quiz organized by Botanical Society, Deptt. of Botany, K.U.K. in January, 2006.**
3. **2nd prize in Science Quiz held on wild life week celebration at K.U.K. in session 2005-2006.**
4. **3rd prize in Science Quiz organized by Biochemical Association, Deptt. of Biochemistry, K.U.K. in February 2006.**
5. **3rd prize in Science Quiz held on wild life week celebration at K.U.K. in session 2004-2005.**

6. **Dale-Carnegie** training held on K.U.K. especially for toppers of various departments in **session 2005-2006**.
7. **Highest award of achievement in Dale-Carnegie training by Vice-chancellor of K.U.K. on 11th march 2006.**
8. Participation in science quiz at **radio station Kurukshetra** in programme “**Yuv-vaani**” in year **2006**.
9. **Goyal prize student money awardee by the Kurukshetra University, Kurukshetra.**



(PROF. DEEPAK RAI)