

# DR. DEEPAK RAI BABBAR

## ▪ Chairman & Associate Professor

- Department of Zoology
- Kurukshetra University, Kurukshetra-136119
- Contact- 09991892171 (M), E-mail: [drbkuk@kuk.ac.in](mailto:drbkuk@kuk.ac.in)
- Address: #D-141, KUK campus or V.P.O. Chaura, Tehsil-Gharaunda, Karnal-132114

## OBJECTIVE

Learn more and meet the challenges in the evolving world.

## PERSONAL PROFILE

Name : Dr. Deepak Rai  
Father's Name : Sh. Balwant Rai Babbar  
Date of Birth : 02-03-1984

## EDUCATIONAL QUALIFICATIONS

- 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.
- \* M. Sc. (Zoology) Gold Medalist with 80.1% marks (Distinction).

## 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 <sup>th</sup>	March, 2000	H.B.S.E.	300/400	75%	First
6.	10 <sup>th</sup>	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.	Assistant Professor Zoology (Budgeted)	Dayanand College, Hisar	07.08.2008	09.04.2012	3.9 years
2.	Assistant Professor Zoology (Budgeted)	Department of Zoology	09.04.2012	06.08.2020	8.3 years
3.	Associate Professor Zoology (Budgeted)	Department of Zoology	07.08.2020	Till Date	2.5 years
4.	Chairperson	Department of Zoology	21.11.2021	Till Date	1 year

## HONOURS/AWARDS

- Gold Medalist with Distinction in M.Sc. Zoology at KUK
- Medal of Appreciation at 30<sup>th</sup> All India Congress of Zoology by Zoological Society of India
- Highest award of achievement in Dale-Carnegie training by K.U.K. in M.Sc. Zoology
- Second runner up award in Wildlife Photography contest organized by TFRI, Jabalpur.
- Certificate of Honour for academic services from 2017-22 as per KU-APPLAUSE policy.

TOTAL TEACHING EXPERIENCE: 15.1 Years

- Under-graduate: 3.9 Years & Post-graduate: 11.4 Years

TOTAL RESEARCH EXPERIENCE: 17 Years

PH.D. GUIDANCE/SUPERVISION: Ten

(A) Number of Candidates who have successfully completed Ph.D.: Six

(B) Number of Candidates registered for supervision at present: Four

RESEARCH PUBLICATIONS: 41 (Research Papers: 30; Book: 7; Book Chapters: 4)

INVITED TALK DELIVERED AS RESOURCE PERSON: 38

RESEARCH PAPERS PRESENTED IN CONFERENCES: 14

CONFERENCES/WORKSHOP/SEMINAR/REFRESHER/SYMPOSIA ORGANIZED: 15

CONFERENCES/WORKSHOP/SEMINAR/REFRESHER/SYMPOSIA ATTENDED: 49

**RESEARCH PROJECT: 2**

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/-

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

1. Ph.D. Evaluator, Forest research Institute, Dehradun, UK.
2. Thesis evaluator of CCSHAU, Hisar; PAU, Ludhiana and HPU Shimla.
3. Thesis evaluator Sourasth University, Rajkot
4. Thesis evaluator Banashthali University, Banashthali & Amity University, Noida
5. Reviewer of manuscript of Journal of Threatened Taxa.
6. Reviewer of manuscript of Indian Journal of Ecology.
7. Reviewer of manuscript of Journal of Zoology.
8. Reviewer of manuscript of Biochemistry and Biophysics Reports
9. Reviewer of Journal of Tropical Ecology.
10. Paper setter at Himachal Pradesh Public service commission, Central University of Jammu, HAU, KUK, CBLU, CDLU, FRI, PAU, YMCA, IGU, GJU, SGGSWU.

**RESPONSIBILITY UNDERTAKEN/POSITION HELD**

1. **Chairperson, Department of Zoology w.e.f. 21.11.2021 to till date**
2. **Chairperson, PGBOS & UGBOS, Zoology; Adhoc committee in Forensic Science and Anthropology & Departmental Research Advisory committee w.e.f. 21.11.2021**
3. **Outside Expert Member, PGBOS, MDU w.e.f. 21.01.2022 to 20.01.2024**
4. **Outside Expert Member, UGBOS, CRSU Jind from 01.09.2023.**
5. **Deputy Director, Public Relations, KUK w.e.f. 08.05.2020 to till date**
6. **Media Advisor, Journal of Haryana Studies, KUK w.e.f. 20.02.2023**
7. **Media Advisor, Kurukshetra University Research Journal, KUK w.e.f. 13.02.2023**
8. **Member Secretary, Eco club Kurukshetra University, Kurukshetra w.e.f. 06.08.2021**
9. **Outside expert Member, Board of Faculty (BOF) for faculty of Life Sciences JCBUS&T, YMCA Faridabad, Haryana w.e.f. 25.06.2021.**
10. **Elected Member, Court, Kurukshetra University, Kurukshetra (25, Jan. 2022- 24, Jan. 2024).**
11. **Member, Ad hoc Committee in Anthropology from 06.12.2021 to 05.12.2023.**
12. **Member, Board of PG Studies in Zoology as Asso. Professor from 09.04.2021 to 08.04.2023**
13. **Member, Ad hoc Committee in forensic science from 26.03.2021 to 25.03.2023.**
14. **Member, Board of UG Studies in Zoology from 21.03.2021 to 20.03.2023. (Promotion)**
15. **Member, Board of UG Studies in Zoology from 27.02.2021 to 20.03.2021. (Promotion)**
16. **Member, Ad hoc Committee in Anthropology from 06.12.2019 to 05.12.2021.**
17. **President, Zoological Association, Kurukshetra University, Kurukshetra (2019-21). & 21-24.**
18. **Vice-President, Kurukshetra University Teachers' Club (Session November 2020-22)**
19. **Member, Board of PG Studies in Zoology from 11.09.2019 to 20.03.2021.**

20. **Member, Ad hoc Committee in forensic science from 26.03.2019 to 25.03.2021.**
21. **Member, Departmental Research Advisory committee from 2018 to till date**
22. **Male Member in STEM for the session 2019-20.**
23. **Member, Research scholarship selection committee for the session 2017-20 (3).**
24. **Vice-President, Kurukshetra University Teachers' Association (Session 2019-20)**
25. **Vice-President, Kurukshetra University Teachers' Association (Session 2017-18)**
26. **Member, Executive Council, Kurukshetra University Teachers' Association (2016-17).**
27. **Member, Ad hoc Committee in Anthropology from 05.12.2017 to 04.12.2019.**
28. **Member, Ad hoc Committee in forensic science from 16.03.2017 to 15.03.2019.**
29. **Member, Board of PG Studies in Zoology from 17.02.2017 to 16.02.2019.**
30. **Member, Board of PG Studies in Zoology from 18.04.2012 to 17.04.2014.**
31. **Member, Board of UG Studies in Zoology from 04.09.2013 to 03.09.2015.**
32. **Elected Member, Court, Kurukshetra University, Kurukshetra (Jan. 2014-Jan.16).**
33. **Elected Member, Academic council, KUK (March, 2015-Jan.16).**
34. **Convener/Member Inspection committees/University Nominees for colleges in NAAC/Observer, member flying & Centre superintendent in University exams.**
35. **Member, Admission committee from 2012 to till date in Deptt. of Zoology, KUK**
36. **In-charge, Placement Cell, Department of Zoology, KUK**
37. **Jury member at State levels and district levels science exhibitions.**
38. **Jury member at various events at different departments/Rostrum of KUK**
39. **Working for extension activities involved in wildlife awareness; more than 200 post graduate students have done their field visits training on identification of avian fauna during their master under my supervision.**
40. **Worked as Member; UGC assisted five years SAP in thrust area of biodiversity conservation at department of Zoology, KUK.**
41. **Actively worked for implementation of CBCS and LOCF system in the subject of Zoology, forensic science and anthropology at UG and PG level.**
42. **Member, Research scholarship selection committee for the session 2017-20**
43. **Secretary, Teachers' Club, Kurukshetra University, Kurukshetra (Nov. 2014-Nov. 16).**
44. **Asst. Secretary, Teachers' Club, KUK (Nov. 2012-Nov. 2014).**
45. **Member, Executive Council, Kurukshetra University Teachers' Association (2014-15).**
46. **President, Zoological Association, Kurukshetra University, Kurukshetra (2013-15).**
47. **Member, Zoological Association, Kurukshetra University, Kurukshetra (2012-13;2015-19).**
48. **Secretary, Zoological Association, Kurukshetra University, Kurukshetra (2005-06).**
49. **Chief guests at annual functions of Schools.**
50. **Career guidance/Motivational talks at various levels**
51. **Delivered many Radio talks, news articles in the area of environmental/wildlife conservation.**
52. **Life member, Indian Science Congress Association (L-30715) from 2016.**
53. **Life member, Indian Ecological Society, PAU Ludhiana (L-540) from 2021.**

**54. Life Member, Kurukshetra University, Kurukshetra Alumni 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, *Antelope 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. (Ongoing). Avifaunal potential and assemblages of Mandothi Wetlands, Haryana (India)
8. Piyush Goyal. (Ongoing). Assessment of Avifaunal Assemblage at Selected Potential Bird Areas of Kurukshetra, Haryana (India)
9. Ritu Pal Bhura. (Ongoing). Diversity and Status of Butterfly fauna (Lepidoptera: Rhopalocera) of district Kurukshetra, Haryana.
10. Anju. (Ongoing). Status and Community composition of Avian Diversity in manger Bani Forest, Aravalli Landscape, Haryana (India).

**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. <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. <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., 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)**
11. 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)**
12. 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>
13. **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.
14. **Rai, D.**, Vats, P. and Gulia, R. 2017. Avifaunal status of Kalesar National Park, Haryana (India). *J. Exp. Zool. India*, **20**(2): 827-833.
15. **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.
16. 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. <https://doi.org/10.31018/jans.v9i3.1387>
17. **Rai, D.** and Jyoti. 2018. Status and ecological aspects of Blackbuck, *Antelope cervicapra* (Linnaeus, 1758) through opinion surveys in and around Hisar, Haryana (India). *J. Exp. Zool. India*, **21**(2): 1195-1201.
18. Jyoti and **Rai, D.** 2019. Ecological studies on group size and age class composition of Blackbuck, *Antelope 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)**
19. 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>
20. **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.  
<https://doi.org/10.31018/jans.v11i2.2092>
21. **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. DOI: <https://doi.org/10.11609/jott.4788.11.9.14194-14203>.
  22. **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.
  23. **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.
  24. 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)**
  25. **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. DOI <https://doi.org/10.31018/jans.v13i2.2666>
  26. 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, DOI <https://doi.org/10.1007/s12595-021-00371-9>
  27. **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. DOI: <https://doi.org/10.11609/jott.5784.13.8.18975-18985>
  28. **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.
  29. 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>
  30. **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.
  31. **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.

32. 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).
33. **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>
34. Rai, D. and Yadav, A. 2023. **Avian Community Composition in and around Mandothi Wetlands, Haryana, India**. *JANS. J. App. Nat. Sci.*, **15**(1): 408-421.  
**DOI: <https://doi.org/10.31018/jans.v15i1.4385>**

#### 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. 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).

#### 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 2<sup>nd</sup> 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.

#### **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----- Environs. *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, *Antelope cervicapra* (Linnaeus, 1758) in Haryana (India). *In:* Animal, Veterinary and Fishery sciences, 106<sup>th</sup> Indian Science Congress, LPU, Phagwara, Jalandhar. (Oral)
14. **Deepak Rai.** (03-07, January, 2019). Variations in group size and Herd composition of Blackbuck, *Antelope cervicapra* (Linnaeus, 1758). *In:* Environmental sciences, 106<sup>th</sup> Indian Science Congress, LPU, Phagwara, Jalandhar. (Poster)

## **SEMINAR/WORKSHOP/CONFERENCE/SYMPOSIA 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 30<sup>th</sup> 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. Chiranji 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, Safidon & 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.

#### **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. 21<sup>st</sup> 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 Mahavidyalya, 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, Sonapat 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. **104<sup>th</sup> 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. **106<sup>th</sup> 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, Sciencedirect and Mendeley** on May 01, 2020 organized by FDC, KUK
42. **Two days National symposium on Avian Biology in conjunction with '3<sup>rd</sup> Meeting of Association of Avian Biologists in India' on 30<sup>th</sup>-31<sup>st</sup> 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 18<sup>th</sup> 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. ~~Ambala SD college on 28 july, 21~~
48. ~~Participated as member committee in workshop for designing of syllabus for YMCA~~
49. **One day Workshop on Awareness Programme on Gender sensitization organized by ICC, KUK on 22 March, 2022.**

## **CO-CURRICULAR ACTIVITIES**

1. **1<sup>st</sup> prize in Science Quiz held on Science Day at K.U.K. organized by Dean Faculty of Science in February, 2006.**
2. **2<sup>nd</sup> prize in Science Quiz organized by Botanical Society, Deptt. of Botany, K.U.K. in January, 2006.**
3. **2<sup>nd</sup> prize in Science Quiz held on wild life week celebration at K.U.K. in session 2005-2006.**
4. **3<sup>rd</sup> prize in Science Quiz organized by Biochemical Association, Deptt. of Biochemistry, K.U.K. in February 2006.**
5. **3<sup>rd</sup> 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 11<sup>th</sup> 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.**

**(DEEPAK RAI)**