

**SKILL COURSE ON WILDLIFE STUDIES**  
(FOR ZOOLOGY PG STUDENTS OF I AND III SEM)

- Biodiversity – Definition, Types, Conservation of Biodiversity. Biogeographical Regions of India, Hot spots, IUCN, RDB, Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Wildlife protection Act,1972, Project Tiger , Crocodile breeding project, National Sanctuaries and zoological parks. Wild life in India with special reference to
  1. Mammals (*Panthera tigris*, *Tetraceros quadricornis*, , *Elephas maximus*)
  2. Birds (*Pavo cristatus*, *Grus leucogeranus* – Siberian white crane, *Gyps bengalensis*),
  3. Reptiles (*Crocodylus palustris*, *Python*, *Kachuga kachuga*),
- Wildlife in Rajasthan with special references to State bird – *Choriotis nigriceps* / *Ardeotis nigriceps* (Great Indian Bustard) and state animal *Gazella gazelle bennetti* (Chinkara)
- Capture and handling of animals - purpose, restraint techniques, different capture methods - Different types of cages, nets and traps, and animal barriers. Drug immobilization - drug delivery equipment and accessories. Immobilization drugs - action, dosage, response and side effects, safety measures. Handling and transport of wild animals,
- Introduction of Wildlife telemetry: transmitters (antenna, power source), transmitter attachments (general protocol, collars etc), receivers, relocating wildlife.

**PRACTICALS**

1. Identification of mammalian fauna, avian fauna, and herpeto-fauna
2. Demonstration of basic equipment needed in wildlife studies use, care and maintenance (cages, nets and traps, Compass, Binoculars, Spotting scope, Range Finders, Global Positioning System, Various types of Cameras and lenses)
3. Familiarization and study of animal evidences in the field; Identification of animals through pug marks, hoof marks, scats, pellet groups, nest, antlers etc.
4. Demonstration of different field techniques for flora and fauna
5. Visit to wild life National Park / Biosphere reserve / Zoological parks

**REFERENCE BOOKS**

1. Fundamentals of Wildlife Management by Prerna Singh Bindra, NATRAJ PUBLISHERS-DEHRA DUN, ISBN: 9788181581624, 8181581628, 2011
2. Wildlife Telemetry: Remote Monitoring And Tracking Of Animals by Imants George Priede,
3. Text Book of Wildlife Management Hardcover – 2009 by S K Singh (Author) , Publisher: IBDC (2009) , ISBN-10: 8181892836 , ISBN-13: 978-8181892836
4. Tbk Wildlife Management Unique Bk 2e Paperback – Import, 31 Jan 2015 by SK SINGH ,Publisher: CBS Publishing; 2nd edition (31 January 2015), ISBN-10: 8123925719 , ISBN-13: 978-8123925714
5. Indian Forestry: A breakthrough approach to Forest Service Paperback – 1 Jan 2013 by Manikandan & Prabhu (Author) , Publisher: Jain Bros; 6th Edition,2016 edition (1 January 2013), ASIN: B00IG3401I
6. Concepts in Wildlife Management Hardcover – 2008 by B B Hosetti (Author) , Publisher: Daya Publishing House; 3rd Revised edition (2008), ISBN-10: 8170355567 , ISBN-13: 978-8170355564
7. Essential Readings in Wildlife Management and Conservation by John W. Connelly, Nordic Board for Wildlife Research, <https://doi.org/10.2981/0909-6396-19.4.496>