



जम्मू केन्द्रीय विश्वविद्यालय  
Central University of Jammu

राया-सुचानी (बगला), जिला: सांबा-181143, जम्मू (जम्मू और कश्मीर), भारत  
Rahya-Suchani (Bagla), District- Samba, 181143, Jammu (Jammu and Kashmir), India

**Course Title:** Wildlife Conservation Management Practices **Credit:** 4 (L-3, T-0, P-1)

**Course Code:**

**Contact Hrs/Week:** (L-3, T-0, P-2)

**Course Outcome (CO)**

Learners will understand wildlife conservation concepts, policies, and laws, develop biodiversity assessment skills, and apply strategies locally and globally.

**Course Learning Outcomes (CLO):** The students will be able to:

1. Understand basics of wildlife conservation values
2. Gain knowledge of habitat management practices for wildlife conservation
3. Learn various wildlife estimation techniques and their applications for conservation and management.
4. Understand practical approaches for the management of wildlife diseases
5. Develop the ability to apply the fundamental principles of wildlife ecology to solve local, national and international conservation and management issues

**Unit I**

Introduction to values of wildlife and Conservation ethics. Conservation Strategies, Legislation and Conventions, WCS, CBD, Agenda 21. Illegal Wildlife Trade, Wildlife Forensics and Crime Scene management

**Unit II**

Wildlife Habitat Evaluation methods and Management practices, Habitat analysis including – Physical and Biological Parameters. Standard habitat evaluation procedures. Application of Remote Sensing and GIS in Wildlife Habitat Management. Restoration of degraded habitats.

**Unit III**

Wildlife population estimation methods. Estimation of carrying capacity. Scatology, Trichology, Wildlife Census methods, Biotelemetry, Camera trapping and wildlife data analysis methods.

**Unit IV**

Zoonosis and One Health Approach, Common diseases of wild animals- Ebola, Rabies, Salmonellosis, Foot and Mouth Disease, *Mycobacterium* TB, Bovine Flu, Avian Flu, Corona. Wildlife disease management and quarantine practices.

Department of Zoology



## जम्मू केन्द्रीय विश्वविद्यालय Central University of Jammu

राया-सुचानी (बगला), जिला: सांबा-181143, जम्मू (जम्मू और कश्मीर), भारत  
Rahya-Suchani (Bagla), District- Samba, 181143, Jammu (Jammu and Kashmir), India

### Unit V

*Ex-situ* and *in-situ* conservation and management planning. Key wildlife challenges and redressal mechanism. Human-wildlife conflict management. Wildlife tourism, conservation and management practices.

### Lab component

1. Demonstration of basic tools used for wildlife studies
2. Studying direct and indirect evidence for wildlife estimation in the field
3. Identification of animals through pug marks, hoof marks, scats, nests and antlers
4. Line transect and point count methods
5. Assessment and categorization of important wildlife species
6. Visit to any *ex-situ/in-situ* conservation setup to understand the conservation and management aspect of wildlife and prepare a short report.

### Suggested Reading:

1. John Skalski, Douglas Robson (1992): Techniques in Wildlife Investigations. Academic Press eBook ISBN: 9780323139144
2. Caughley, G., and Sinclair, A.R.E. (1994) Wildlife Ecology and Management. Blackwell Science.
3. Woodroffe, R., Thirgood, S. and Rabinowitz, A. (2005) People and Wildlife, Conflict or Co-existence? Cambridge University.
4. Bookhout, T.A. (1996) Research and Management Techniques for Wildlife and Habitats (5th edition) The Wildlife Society, Allen Press.
5. Sutherland, W.J. (2000) The Conservation Handbook: Research, Management and Policy. Blackwell Sciences
6. Hunter M.L., Gibbs, J.B. and Sterling, E.J. (2008) Problem solving in Conservation Biology and Wildlife Management: Exercises for Class, Field, and Laboratory. Blackwell Publishing.

Department of Zoology