

COURSE OUTLINE

WL-707

Terrestrial Wildlife Management

3(3-0)

Course Instructor: Dr. Sangam Khalil

Contact Number: 0331-5181918

Email:sangam.khalil@iub.edu.pk

THEORY

Introduction to terrestrial ecosystems and associated wildlife in Pakistan: mountains, rangelands, foothill forests, deserts, agro-ecosystems. Status and threats to wildlife in these ecosystems. Wildlife and farmlands (Farm crops as wildlife food, erosion, sedimentation and wildlife, agricultural chemicals and wildlife). Wildlife and rangelands (management of range vegetation, livestock grazing and wildlife, range fires and wildlife, fencing, game ranching). Forest management and wildlife (basics of forest management, clear cutting and wildlife, snags, deadwood and fuel wood, forest fire and wildlife). Urban wildlife (urban wildlife resources, urban monoculture, multiple use management in the city, urban wildlife as pest). Exotic wildlife (exotic species, concerns, guidelines and policies) Wildlife and water (ecological influences on wildlife, populations, physiological and behavioral responses, reservoir effect and management, water and raw sewage, water developments and wildlife). Wildlife and soils (relationship of soil & wildlife, fertilization).

Wildlife Management Planning. Management efforts by public sector agencies and departments, NGO's and Community organizations, major projects of wildlife conservation; concept of community based wildlife management, wildlife and ecotourism.

Lecture wise Teaching Schedule

Lecture #	Lecture Topic
1	Introduction to terrestrial ecosystems and associated wildlife in Pakistan
2	Mountains, rangelands, foothill forests, deserts, agro-ecosystems.
3	Status and threats to wildlife in these ecosystems.
4	Wildlife and rangelands (management of range vegetation, livestock grazing and wildlife, range fires and wildlife, fencing,

	game ranching).
5	Urban wildlife (urban wildlife resources, urban monoculture, multiple use management in the city, urban wildlife as pest).
6	Exotic wildlife (exotic species, concerns, guidelines and policies)
7	Wildlife and water (ecological influences on wildlife, populations, physiological and behavioral responses, reservoir effect and management, water and raw sewage, water developments and wildlife).
8	Wildlife and soils (relationship of soil & wildlife, fertilization).
9	Major projects of wildlife conservation; concept of community based wildlife management.
10	Wildlife and ecotourism.
	Assignments
	Exam

Books Recommended

1. Bailey, J.A. 1984. Principals of Wildlife Management. John Wiley London.
2. Bolen, E. G. and W. L. Robinson. 1995. Wildlife ecology and management. 3rd edition. Prentice Hall, Inc, New Jersey, USA. 620pp.
3. Khan, M. S. 2006. Amphibians and Reptiles of Pakistan. Krieger Publishing Company. 311pp.
4. Peine, John D. 1999. Ecosystem Management for Sustainability: Principles and Practices Illustrated by a Regional . CRC Press.
5. Roberts, T. J. 1997. The Mammals of Pakistan. Oxford University Press. 525pp.
6. Roberts. T. J. 1992. The Birds of Pakistan (Vol. I& II). Oxford University Press. 598, 617pp.
7. Teague, Richard. D. A. Manual of wildlife conservation, Colorado State University, Fort Collins, Colorado. The Wildlife Society Washington D.C.
8. Tiwaei, P.C. and Bhagwati, J. 1997. Wildlife in the Himalayan Foothills: Conservation and Management. 376 pp.