

ELECTIVE COURSE

GEOG.709:

BIODIVERSITY CONSERVATION

3(3-0)

Course Objectives

This course will enable the students to know the functions of ecosystem, and will help the student to learn the approaches to biodiversity conservation, planning and management strategies of inside and outside of protected areas.

Learning Outcomes

The students would be capable to apply the knowledge and skills of conservation for the conservation of biodiversity of flora and fauna of Balochistan.

Course Outline

1. Introduction

- Nature and scope
- Concerns about biodiversity
- Drivers of biodiversity loss
- Theories of conservation; anthropocentrism, egocentrism and ethnocentrism
- Conventions and agreements
- International efforts for conservation of bio-diversity

2. Trends of Biodiversity Loss and Threats

- Change in extent of forests and other ecosystems
- Change in abundance & distribution of selected species
- Proportion of species threatened
- Change in genetic diversity of cultivated and domesticated species
- Size and extent of protected areas and major threats to biodiversity

3. Advantages of Biodiversity Conservation

- Role of biodiversity in mitigating disasters
- Contribution to national economies
- Maintaining a balance in Ecosystem services

4. Conservation of Protected Areas and Restoration

- Categories of Protected area
- People and protected area relations
- In-situ and Ex-situ conservation
- Restoration ecology

Recommended Books

1. Roger Butlin (2008). Speciation and patterns of Biodiversity. Cambridge Univ; Press.
2. Jefferies, M. (2006). Biodiversity and Conservation, Rutledge
3. Edward Willson. (1999). The diversity of Life. Norton & Company.

Recommended Journals

1. Conservation Biology
2. Thnoekologica
3. Tropical ecology