

Course Title: Bio-diversity and Environment

Course Code: FRW-607

Course Credit hours: 3(2-1)

Course Incharge: Muhammad Safeer

THEORY

Basic terms, importance of bio-diversity and conservation, species diversity, threats to bio-diversity. Loss of diversity, causes and consequences. Process of extinction.

Over exploitation a cause for loss of bio-diversity.

Increasing diversity by restoring damaged ecosystem.

Bio-diversity conservation through non-chemical methods.

Environment and plant growth.

Impacts of environmental changes on bio-diversity.

PRACTICALS

Visits to various ecological zones.

Estimating reduction in bio-diversity.

Surveying and sampling of endangered flora and fauna,

Mapping and report writing of diversified biota.

BOOKS RECOMMENDED

1. Bailey J.A. 1984. Principles of wildlife management. John Wiley and sons, Inc. USA.
2. Doughlass, R. W. 1982. Forest recreation. Pergamoi Press, Oxford. UK.
3. Frankcl, O.H. and M. Souli. 1981. Conservation and evolution. CambridgeUniversity Press, London, UK.
4. Giles, Robert. H.Jr. 1987. Wildlife management. W.I.E. Freeman and Co., San Francisco.
5. Griles, R.H. 1971. Wildlife management techniques. Wildlife Society Washington, DC, USA.
6. Hunter, M.L.Jr. 1996. Fundamentals of conservation biology. Blackwell Science. Inc. London, UK.
7. Quraishi M.A.A., Rashid Ahmad Khan and Sh. M.A. Qayyoom Hissaan. 2000. Practical manual of wildlife management Vol. I, II, III. Discipline of Forestry Range Management and wildlife. Univ. of Agriculture Faisalabad, Pakistan.