

CERTIFICATE COURSE

DEPARTMENT OF ZOOLOGY

COURSE NAME: LFCCZOO02 An Introduction To Biodiversity

Objectives:

1. Enables students to get acquainted with major fauna of Kerala.
2. To develop skill in identification of major fauna of Kerala.
3. To inculcate the importance of conservation of biodiversity.

Duration: 30 hours(Theory 20+Field visit 10)

Syllabus:

Theory (25hrs)

Module 1

Introduction to biodiversity - what is biodiversity; levels of biodiversity; types of diversity; threats to biodiversity; conservation of biodiversity: future strategy for conservation: Indian scenario of conservation of biodiversity. (3 hrs)

Module 2

Ecosystem diversity - marine and coastal ecosystem: inland water ecosystem: forest ecosystem, dry and sub-humid land ecosystem; agricultural ecosystem. (2 hr)

Module 3

Biodiversity of India - Wet lands; forests; marine environments: species diversity - endemic & threatened species: biodiversity of Western Ghats. (1 hr)

Module 4

Study of major fauna pertaining to Kerala (14hrs)

- Butterfly fauna of Kerala
- Spider fauna of Kerala
- Fresh water fishes of Kerala
- Amphibian fauna of Kerala
- Reptilian fauna of Kerala
- Avian fauna of Kerala
- Mammalian fauna of Kerala

Field study (10 hr)

1. Identification of major fauna of the campus.
2. Identification of butterfly fauna of campus.
3. Visit to wildlife sanctuary or Protected Area - Introducing conservation measures and management of a protected area.

REFERENCE BOOK

1. Status and Trends of Global Biodiversity- Vinash Tyagi - Rajat Publications. New Delhi.
2. Biodiversity - Principles and Conservation -II Edn ; C.Kumar And M J Asija Agrobios (India)
3. Environmental Biology and wildlife Conservation -Prof. K K Bhaskaran- Manjusha Publications
4. Environment Reader for Universities by Down To Earth
5. Textbook of Environmental Studies - Erach Bharucha for UGC - Universities Press
6. Green Technology-Tell Me Why Series -Manorama