

# **Department of Zoology**

## **Certificate Course**

**Course name: BIODIVERSITY AND CONSERVATION**

**Course Code: LFCC22ZL2**

**Type: Programme for III B.Sc. Zoology**

### **Objectives:**

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

**Course duration: 30 hrs (Theory: 25 hours + Field visits: 5 hrs)**

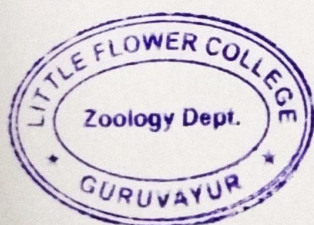
## **BIODIVERSITY AND CONSERVATION**

### **SYLLABUS**

**Duration (30 hrs)**

**Theory (25hrs)**

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. **(3hrs)**
2. Ecosystem diversity – marine and coastal ecosystem; inland water ecosystem; forest ecosystem; dry and sub-humid land ecosystem; agricultural ecosystem. **(2 hrs)**
3. Biodiversity of India – wetlands; forests; marine environments; species diversity – endemic & threatened species; biodiversity of Western Ghats. **(4 hrs)**
4. National Parks – national parks of Kerala **(2 hrs)**
5. 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

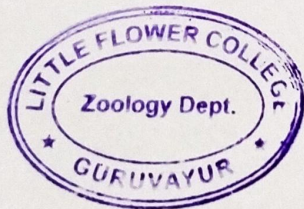
### Field study (5 hrs)

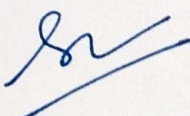
1. Identification of major fauna of the campus
2. Identification of butterfly fauna of campus
3. Visit to Wildlife Sanctuary or Protected Area – Introducing conservation measures and management of a protected area. (Optional)

External examination: 1

### REFERENCES BOOKS

1. Status and Trends of Global Biodiversity – Vinash Tyagi – Rajat Publications, New Delhi
2. Biodiversity – Principles and Conservation – II Edn., U. 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



  
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