

6. Sharma, P.D.1994. Environmental Biology and Toxicology, Rastogi Publ.
7. Sharma, P.D. Ecology and Environment, Rostogi Publications, Meerut.

## PRACTICAL COURSES

### ESP554 CONSERVATION OF BIODIVERSITYLAB.

#### **Course Outcomes:**

- CO1 Determine the diversity of species using different methods.*
- CO2 Study adaptive features in hydrophytes and xerophytes.*
- CO3 Determine various diversity indices.*
- CO4 Identify endangered species.*

1. Determination of density of species using quadrat method.
2. Determination of suitability point of a vegetation.
3. Determination of frequency and relative frequency of species in a given area.
4. Determination of abundance of species in a given area.
5. Identification of endangered species of flora and fauna.
6. Economic potentialities of selected plants and animals.
7. Visit to National parks and sanctuaries.
8. Identification of ecological features of selected flora and fauna.
9. Study of adaptive features of hydrophytes.
10. Study of adaptive features of xerophytes.

### ESP 555 ENERGY AND GREEN TECHNOLOGIES LAB.

#### **Course Outcomes:**

- CO1 Study the working principles of various energy plants.*
- CO2 Describe the role of biomaterials in the removal of metals.*
- CO3 Identify energy plants.*
- CO4 Understand plants used for the production of alternate energy sources.*
- CO4 Assess metal adsorption by biomaterials.*

1. Study and identification of energy plants.
2. Adsorption and removal of chromium using different biomaterial.
3. Adsorption and removal of iron using biomaterials.
4. Study of biofuel /green chemistry / petroleum energy plants characteristics.
5. To study the working principles of wind plant/ nuclear energy plant / Gobar gas plant/Glacier plant.