BSP508 APPLIED ECOLOGY LAB

Course Outcomes:

After successful completion of the course, students will be able to:

CO 1. Enhance the theoretical knowledge of applied ecology with lab experiments and fieldvisits.
CO 2. Understand plant-animal interactions and pray-predatorrelationship.
CO 3. Unravel medicinal properties of plants and significance of conservation
CO 4. Develop skills of remote sensing.
CO 5. Identify the freshwater and marine fisheryresources.
CO 6. Estimate growth parameters and determine the probability ofdeath.

1. Biodiversity
2. Terrestrialbiodiversity
3. Aquaticbiodiversity
4. Plant-animalinteractions
5. Endangered medicinalplants.
6. Landscapes analysis through remote sensingdata.
7. Freshwater fisheryresources
8. Marine fisheryresources
9. Estimation of growth parameters
10. Life-tables
11. Prey-predatorrelationships

BSP509 IMMUNOLOGY LAB

Course Outcomes:

After successful completion of the course, students will be able to:

CO 1. Develop skills in immunology lab experiments.
CO 2. Isolate lymphocytes and identify different blood cells
CO 3. Understand hemolymph cells in insects
CO 4. Perform immunoassays using various immunodiffusion methods
CO 5. Detect and quantify antigens and allergens using established methods

1. Study of immune system inrats
2. Blood film preparation and study of immunecells
3. Isolation oflymphocytes
4. Study of insecthemocytes
5. Ouchterlony double diffusionassay
6. Radial Immunodiffusiontechnique
7. Immunological diagnosis of pregnancy andinfection
8. DOT- ELISAtechnique
9. Rocket immunoelectrophoresismethod
10. Detection of allergens: Pollen Count by sticky slidemethod

BSP 510 ECOTOXICOLOGY LAB

Course Outcomes:

After successful completion of the course, students will be able to:

CO 1. Learn and practice safety measures to be taken inlaboratories.
CO 2. Determine acute and chronic toxicities throughbioassays.
CO 3. Estimate oil and grease from water and differentiate between clean and polluted watersamples