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 and infection
- 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