

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 in laboratories.
- CO 2. Determine acute and chronic toxicities through bioassays.
- CO 3. Estimate oil and grease from water and differentiate between clean and polluted water samples
- CO 4. Perform tests for detection of metals and other toxic pollutants and food adulterants.
- CO 5. Assess effect of metals on plant growth

- 1. Good Laboratory Practices
- 2. Safety notices in environmental toxicological studies.
- 3. Bioassay experiments using different test systems.
- 4. Behavioural study of the fish under exposure to toxicants.
- 5. Experiments on solid waste
- 6. Estimation of oil and grease in water sample.
- 7. Demonstration of catalase activity in polluted waters.
- 8. Spot test for detection of metals, residual chlorine, nitrite poisoning, fluoride toxicity, food adulterants and pesticide residues.
- 9. Effect of CdCl_2 on germination of Bengal gram.
- 10. Effect of toxicants in meristematic tissue (Onion root tips).
- 11. GC analysis of pesticide residues in food samples.

