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. 11. GC analysis of pesticide residues in food samples.