

1. Methods of collection and preservation of microorganisms.
2. Gram staining techniques.
3. Study of microorganisms in air.
4. Isolation, enumeration and identification of microorganisms in soil samples.
5. MPN techniques for coliform analysis.
6. Microbiological assays.
7. Study of biomass in polluted soil and water.
8. Determination of catalase activity in a water sample.
9. Study of cellulolytic degradation of organic waste.
10. Extraction of DNA from a tissue (mammalian liver/fish liver).
11. Extraction of RNA from plant/animal sources.
12. Production of compost and its analysis.

ESP419 ENVIRONMENTAL STATISTICS LAB.

Course Outcomes:

CO1 Learn the use of statistics in the interpretation of environmental data.

CO2 Gain the knowledge of application of statistics in environmental science.

CO3 Understand statistical hypothesis testing for environmental data.

CO4 Learn the applications of matrices in Environmental Impact assessment.

Practicals based on the theory units.

ESP420 ENVIRONMENTAL LAWS AND POLICIES LAB.

Course Outcomes:

CO1 Learn the procedure of implementation of various environmental laws.

CO2 Gain the knowledge of policies for environmental protection.

CO3 Study the role of pollution control boards in environmental protection.

CO4 Learn the role of government in environmental pollution control.

Practicals based on the theory units.