

PRACTICAL COURSES

ESP468 ENVIRONMENTAL CHEMISTRY LAB.

Course Outcomes:

CO1 Determine metal concentration in industrial effluents.

CO2 Learn the principles for the estimation of various chemicals present in water and soil.

CO3 Estimate various soil quality tests.

CO4 Understand saponification value of oil.

CO5 Study the skills of chemical analysis of environmental samples.

1. Determination of pH and conductivity of different water and soil samples.
2. Determination of calcium and magnesium in different samples.
3. Determination of total dissolved solids in water samples.
4. Determination of carbonates and bicarbonates in water samples.
5. Determination of chloride in water sample.
6. Estimation of Iodine value of given oil samples.
7. Determination of copper content in industrial effluents.
8. Determination of ferrous ion in the samples.
9. Estimation of the amount of Phenol/Aniline in the water samples.
10. Determination of Saponification value of oil.

ESP469 OCCUPATIONAL HEALTH HAZARDS LAB.

Course Outcomes:

CO1 Document various occupational diseases and causes.

CO2 Describe about safety devices in industries.

CO3 Learn the type of health hazards faced by the workers in industries.

CO4 Understand occupational health hazards in agricultural workers.

CO5 Know the personal protective equipment used in the industries.

CO6 Study on diseases occurring in occupational area which help for employability in industries.

1. Study of byssinosis.
2. Study of bagassosis.
3. Study of pneumoconiosis.
4. Documentation of allergic diseases and causes.
5. Safety devices in industries, including personal protective equipment.
6. Survey and documentation of occupational diseases and causes in given areas.
7. Respiration disorder in industrial workers.
8. Occupational health hazards in agricultural workers.
9. Industrial visit.
10. Representation of incidents of endemic and epidemic diseases in India and world maps.
11. Safety symbols used in laboratories.