

Environmental Engineering Lab

Lab In charge: Mrs. V. Sree Lakshmi

The laboratory is equipped with all digital meters required for advanced research and consultancy services. All the equipment's mentioned in the syllabus content of the undergraduate and postgraduate program can be carried out in the laboratory. The obsolete equipment's and methods are periodically replaced with latest arrivals and methods, and the condemned equipment's are used to explain the historical development.

Environmental Engineering involves planning, design, construction and operation of equipment, systems, and structures for the protection and enhancement of the environment. Although traditionally a significant part of the Environmental Engineering encompassed water and waste water collection, treatment and disposal to ensure sanitary living conditions for the public, in recent times, its scope has grown abundantly covering additionally aspects of air pollution control, waste water treatment/water pollution control, hazardous waste management, and solid waste management.

The Environmental Engineering laboratory practical provides good insight into different experimental methods relevant to Environmental Engineering. In this lab we perform various test on drinker water and sewage samples to check pH value, total dissolved solids, BOD and COD, total suspended particles etc. as per BIS standard. It helps in to assess the water quality standard of the region, pollution load in sewage and working efficiency of sewage and other water treatment unit. Experiment on ambient air pollution parameter such as SO_x, NO_x and SPM, and noise pollution measurement are also performed in this lab.

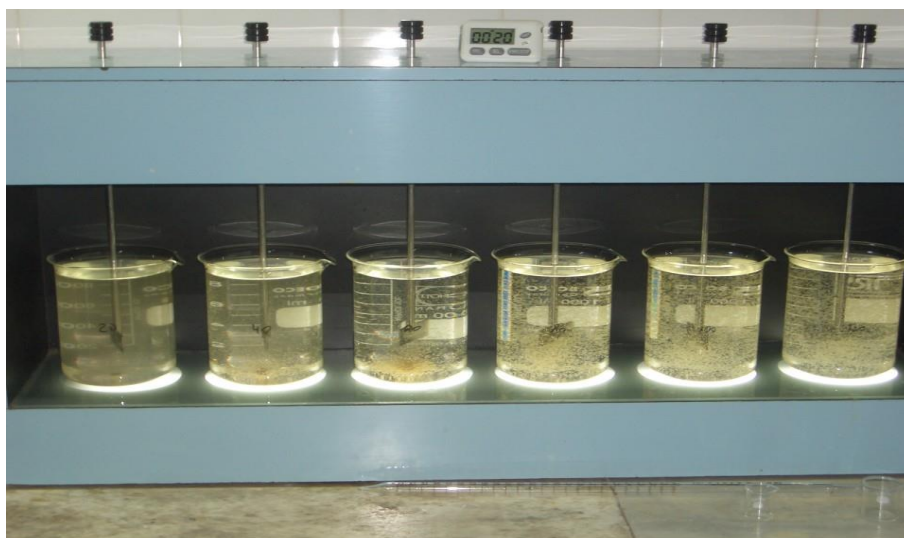
Sl. No	List of the Experiments
1	Determination of pH .
2	Determination of Electrical conductivity .
3	Determination of Turbidity .
4	Determination of Optimum coagulant dose by Jar test .
5	Determination of Hardness .
6	Determination of Acidity .
7	Determination of Alkalinity .
8	Determination of Residual Chlorine .
9	Determination of Fluoride .
10	Determination of Total Solids .
11	Determination of Total Dissolved Solids .

12	Determination of Suspended Solids.
13	Determination of Settleable Solids.
14	Determination of Dissolved Oxygen.
15	Determination of Biochemical Oxygen Demand.
16	Determination of Chemical Oxygen Demand.
17	Determination of Chlorides.

UV spectrophotometer



Jar Test Apparatus



Double Distillation Unit



BOD incubator



COD Digester



Muffle Furnace

