

Environmental Engineering Lab

Objective: Conducts Tests on water properties to Determine of pH, Hardness, Chloride, Turbidity and other tests



Sections Handled: IV Year

Major Equipment Details:

S. No	Equipment Name	Qty
1.	pH Meter	1
2.	Turbidity Meter	1
3.	Conductivity Meter	1
4.	Muffle Furnace	1
5.	Dissolved Oxygen Meter	1
6.	COD Reflux Apparatus	1
7.	BOD Incubator	1
8.	U-V Spectrophotometer	1
9.	Laminar Flow Chamber	1
10.	Water Stoll	1
11.	Jar test apparatus	1
12.	Hot air Oven	1
13.	Chloroscope	1
14.	Desiccator	2

Faculty In charge with qualification : B.Vijay Lalitha - M.E

Lab Technical name with qualification:

Experiment list as per curriculum:

- 1.Determination of pH and Electrical Conductivity of Water and Soil.
 - 2.Determination and estimation of Total Hardness–Calcium & Magnesium.
 - 3.Determination of Alkalinity/Acidity
 - 4.Determination of Chlorides in water and soil.
 - 5.Determination and Estimation of total solids, organic solids and inorganic solids and settleable solids by Imhoff Cone.
 - 6.Determination of Iron.
 - 7.Determination of Dissolved Oxygen with D.O. Meter & Wrinklers Method and B.O.D.
 - 8.Determination of N, P, K values in solid waste
 - 9.Physical parameters – Temperature, Colour, Odour, Turbidity, Taste.
 - 10.Determination of C.O.D.
 - 11.Determination of Optimum coagulant dose.
 - 12.Determination of Chlorine demand.
 - 13.Presumptive Coliform test.
 - 14.Design of A Sedimentation Tank
- Experiment list beyond the curriculum
1. Measurement of Salinity