Objective: Conduct Tests on water to Determine pH, Hardness, Chloride, Turbidity and other tests.



Sections Handled: II 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 : P.Nagabhushanam.M.E Environmental Engineering.

Lab Technician name with qualification: K. Vinay Kumar. B.Tech.

Experiments 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.

5. Determination of Iron.

6. Determination of Dissolved Oxygen with D.O. Meter & Winkler's 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 Sedimentation Tank

Experiment list beyond the curriculum

1. Measurement of Salinity