ENVIRONMENTAL ENGINEERING LAB

The **Environmental Engineering Laboratory** is an essential part of the B. Tech Civil Engineering & M. Tech Environmental Engineering curriculum, providing students with practical experience in assessing and managing environmental quality. This lab enables students to perform key experiments such as the analysis of water and wastewater samples for parameters like pH, turbidity, hardness, alkalinity, chloride, dissolved oxygen (DO), biochemical oxygen demand (BOD), and chemical oxygen demand (COD), as well as air quality monitoring and solid waste characterization. These experiments help students understand pollution levels, evaluate treatment efficiency, and design environmentally sustainable solutions for real-world civil engineering projects. The laboratory not only reinforces theoretical knowledge but also equips future engineers with the technical skills required for environmental impact assessment, regulatory compliance, and sustainable infrastructure development

LABORATORY DETAILS

Name of the laboratory	**ENVIRONMENTAL ENGINEERING LAB**
Carpet area	**164 m^2**
No. of machines or experiment setups	**31**
No. of experiments conducted	**18**

SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

Sl. No	Equipment
1	Double beam uv-vis spectrophotometer
2	Dust Sampler With Gaseous Sampling Attachment
3	Electronic Balance
4	Flame photometer
5	Electronic Balance
6	Stack Monitoring Kit
7	Laminar Air Flow Cabinet
8	Water quality analyzer
9	Kjeldhal distillation unit
10	All glass single distillation unit
11	COD Digestion Apparatus
12	BOD Incubator
13	Digital Spectrophotometer
14	Jar Test Apparatus
15	Microscope
16	Refrigerator
17	Muffle Furnace
18	Filtering Apparatus
19	Hot air oven
20	Water Bath

21	Dissolved Oxygen meter
22	Digital Nephelo Turbidity meter
23	Digital Conductivity meter
24	Digital Ph meter
25	Colony counter
26	Autoclave
27	Magnetic Stirrer w/o hot plate
28	Water Still Model
29	Hot Plate
30	Heating Mandle With Energy Regulator
31	Magnetic Stirrer with hot plate