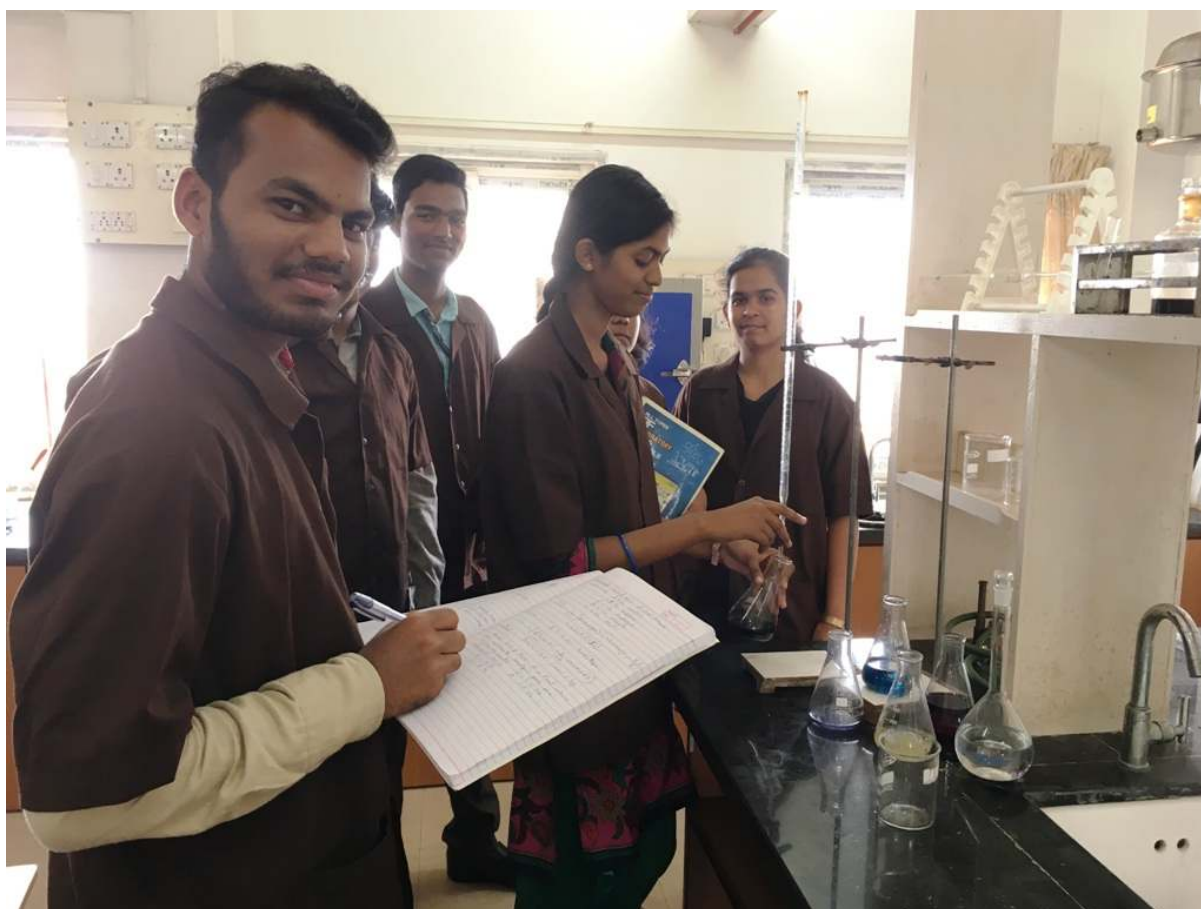


**Lab: Chemistry-1**

**Lab In-charge: Mr. Audumbar Patkar**



## **Department of Applied Sciences and Humanities**

### **Applied Chemistry Laboratory**

❖ **Objective:**

- To get practical knowledge of various principles of Chemistry.
- To develop an understanding of the uses of analytical instruments in chemistry.

- To provide an understanding of chemical methods employed for analysis in engineering chemistry.

❖ List of Experiments:

- To determine total, temporary and permanent hardness of water sample by EDTA method.
- To determine Chloride content of water by Mohr's Method.
- To determine free acid pH of different solutions using pH meter
- Determination of Viscosity of oil by Redwood Viscometer
- Determination of COD of water.
- Determination of Moisture content of coal.
- Determination of Ash content of coal.
- Flue gas analysis using Orsat's apparatus.
- Determination of Acid value of oil.
- Determination of Flash point of a lubricant using Abel's apparatus.
- Determination of Flash point of a lubricant using Pensky Marten's apparatus.

❖ List of Instruments:

- Hot air Ovens
- Soxhlet extractor Apparatus
- Water Distillation Units
- pH meter apparatus
- Abel's Closed cup apparatus
- Pensky Marten's Apparatus
- Redwood Viscometer No. 01 apparatus
- Digital Weighing Balance
- Orsat gas analyser