Course Code	Course Name	Credits
26CH151	QUANTITATIVE ANALYSIS-I	02

Objective

This laboratory course on quantitative analysis intends to teach students to collect and analyze numerical data, to describe, predict and control variables of interest and to learn the different methods of expressing concentrations and to determine an unknown concentration in a sample using an analytical method.

1. Estimation of Hardness of water by EDTA method.
2. Estimation of Iron (II) Sulphate by $KMnO_4$ using a standard Mohr's salt solution.
3. Estimation of Iron (II) Sulphate by $K_2Cr_2O_7$ using a standard Mohr's salt solution.
4. Estimation Alkalinity of water.
5. Estimation of Copper in samples using EDTA.
6. Estimation Zinc using EDTA.
7. Estimation of Sodium Hydroxide - Standard Sodium Carbonate.
8. Estimation of sodium carbonate.
9. Estimation of sodium carbonate and sodium bicarbonate in a mixture (Wader's method).
10. Estimation of oxalic acid.

Students are required to perform and record at least eight experiments in the laboratory manual as part of the course requirements.