

I Year II Semester

Code: 20CH2101

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ENGINEERING CHEMISTRY LAB

List of Experiments

1. Introduction to chemistry laboratory- molarity, normality, primary, secondary standard solutions, volumetric titrations, qualitative analysis, quantitative analysis etc.
2. Determination of HCl using standard Na_2CO_3 solution.
3. Determination of alkalinity of a sample containing Na_2CO_3 and NaOH.
4. Determination of Mn(II) using standard oxalic acid solution.
5. Determination of ferrous iron using standard $\text{K}_2\text{Cr}_2\text{O}_7$ solution.
6. Determination of copper(II) using standard hypo solution.
7. Determination of temporary and permanent hardness of water using standard EDTA solution.
8. Determination of the concentration of acetic acid using sodium hydroxide. (pH-metry method)
9. Determination of the concentration of strong acid vs strong base. (By conductometric method)
10. Estimation of Vitamin C.
11. Determination of phosphoric content in soft drinks.
12. Adsorption of acetic acid by charcoal.
13. Preparation of nylon-6, 6 and Bakelite (Demonstration only)