

LAB ACTIVITIES OF CHEMISTRY (2024-25) XII

Month	Practical/Activity to be conducted
April	 Tests for the functional groups present in organic compounds 1. To test the presence of unsaturated, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino(Primary) groups.
May	 Quantitative Estimation 2. To study in detail, the use of a mechanical balance/electronic balance. 3. To prepare a standard solution of oxalic acid. 4. To determine the strength of a given solution of KMnO₄ bytitrating it against a standard solution of oxalic acid. 5. To prepare a standard solution of ferrous ammonium sulphate. 6. To determine the strength of a given solution of KMnO₄ bytitrating it against standard ferrous ammonium sulphate.
July	 Qualitative Analysis 7. To determine one cation in a given salt. Cations- Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Ni²⁺, Zn²⁺, Co²⁺, Ca²⁺, Sr²⁺, Ba²⁺, Mg²⁺, NH4⁺.
August	Qualitative Analysis 7. To determine one anion in a given salt. Anions – CO3 ²⁻ , S ²⁻ , NO ²⁻ , SO3 ²⁻ , SO4 ²⁻ , NO ³⁻ , Cl ⁻ , Br ⁻ , I ⁻ , PO4 ³⁻ , CH3COO ⁻ .
October	 Preparation of Inorganic Compounds 8. To prepare double salt of ferrous ammonium sulphate or potash alum. 9. To prepare a solution of potassium ferric oxalate.
November	 Electrochemistry 10. To study the variation of cell potential in Zn/Zn²⁺ Cu²⁺/Cu with change in the concentration of electrolytes (CuSO4 or ZnSO4) at room temperature. Chemical Kinetics
December	Preparation of Organic Compounds 12. To prepare a solution of aniline.