**Applied Sciences Lab**

**LIST OF EXPERIMENTS**

* **Determination of alkalinity of water sample.**
* **Determination of hardness of water sample by EDTA method.**
* **Determination of Percentage composition of NaOH in the given mixture of NaOH and NaCl.**
* **Determine the amount of Oxalic acid and Sulphuric acid in one liter of solution, given standard sodium hydroxide and potassium permanganate.**
* **Determine the amount of copper in the copper ore solution, provided hypo solution (Iodometric method).**
* **Determine the amount of chloride ions present in water using silver nitrate (Mohr’s Precipitation method).**
* **Determine the strength of MgSO4 solution using Complexometric titration.**
* **Determine the surface tension of a liquid (density to be determined).**
* **Determine the viscosity of a given liquid (density to be determined).**
* **Determine the cell constant of conductivity cell and titration of strong acid/strong base conductometrically.**
* **To determine (a) ………max of the solution of KMnO4. (b) Verify Beer’s law and find out the concentration of unknown solution by spectrophotometer.**
* **Determination of the concentration of iron in water sample by using spectrophotometer.**
* **Determination of concentration of Iron (lll) by complexometric titration.**
* **Proximate analysis of coal.**
* **Determination of eutectic point and congruent melting point for a two-component system by method of cooling curve.**