

SYLLABUS :-

Prerequisite CY : CY19001

Determination of the molecular weight of polystyrene from viscometric measurements; Vapor-Liquid Equilibrium: Phase diagram of an azeotropic mixture; Determination of the critical solution temperature of the phenol-water system; Phase diagram of a Three-component system; Determination of activation energy of the hydrolysis reaction of ethylacetate catalyzed by an acid (HCl); Determination of the distribution coefficient of ammonia between chloroform and water; Determination of the formula of a complex by use of Distribution law; Determination of the isoelectric point of an Amino Acid; Determination of the surface area of a molecule; Determination of the Heat of Neutralization of a weak and a strong acid and strong base by calorimetry, Thermodynamics of an Electrochemical Cell: Energy, Enthalpy and Entropy of Reaction; Standard Cell Potential and Activity Coefficients: construction of Daniel Cell and determination of its standard emf; Verification of Beer-Lambert Law at the Isobestic wavelengths of an analyte by UV-Vis spectroscopy.