

COURSE OBJECTIVES AND COURSE OUTCOMES

T. Y. B. Sc. SEMESTER - V

SUBJECT: CHEMISTRY PRACTICAL

Sr. No.	Course Objectives	Course Outcomes
1)	To train students in non-instrumental methods of analysis.	Learner will be able to determine molecular weight, order of reaction and investigate surface phenomenon to verify Freundlich adsorption isotherm
2)	To expose students to instrumental methods of analysis	Students will be trained to independently use potentiometry, conductometry and pH metry for quantitative determinations
3)	To learn methods of preparation of inorganic compounds	Students will get insight into preparation of coordination complexes
4)	To introduce students to the field of analysis of solid-solid binary mixtures	Students will become independent in detection of chemical type of binary mixtures of organic compounds, followed by separation and characterization
5)	To teach students the titrimetric and instrumental methods for analytical studies	Students will learn commercial analysis and also get hands on training in use of spectrophotometry, flame photometry and turbidimetry

COURSE OBJECTIVES AND COURSE OUTCOMES

T. Y. B. Sc. SEMESTER - VI

SUBJECT: CHEMISTRY PRACTICAL

Sr. No.	Course Objectives	Course Outcomes
1)	To study classical methods of analysis	Learners will be able to study chemical kinetics to find the rate constant and determine molecular weight of polymers by viscosity measurements
2)	To train students to the field of instrumental methods of analysis	Students will be able independently use potentiometry, conductometry and colorimetry for quantitative determinations
3)	To introduce learners to preparation of inorganic compounds and to carry out qualitative and quantitative measurements of given water soluble salt	Students will get insight into preparation of coordination complexes. They will also learn to determine purity of water soluble salts followed by characterization of ions
4)	To introduce students to the field of analysis of liquid-liquid and liquid-solid binary mixtures	Students will become independent in detection of type of binary mixtures of organic compounds, followed by separation and purification
5)	To teach students the titrimetric and instrumental methods for analytical studies	Students will learn commercial analysis, ion exchange methods and also get hands on training in use of spectrophotometry, potentiometry and pH metry