

## COURSE OBJECTIVES AND COURSE OUTCOMES

### T. Y. B. Sc. SEMESTER - V

#### SUBJECT: CHEMISTRY PAPER - IV (USCH504)

Sr. No.	Course Objectives	Course Outcomes
1)	To introduce students to the basic concepts of quality control and quality assurance	Learners will gain proficiency in quality control and assurance, which is vital from an industrial point of view
2)	To learn purpose, significance and practical difficulties in sampling	They will be exposed to the practical aspects of sampling
3)	To expose students to the theory and applications of atomic spectroscopy	Students will get insight into basic concepts and applications of atomic spectroscopy
4)	To learn about fluorescence and phosphorescence	They will gain the confidence to handle modern instruments
5)	To introduce students to the modern separation techniques like HPLC, HPTLC and gas chromatography	They will be able to apply their knowledge into various quantitative studies. Students will be able to independently handle problems

### T. Y. B. Sc. SEMESTER - VI

#### SUBJECT: CHEMISTRY PAPER - IV (USCH604)

Sr. No.	Course Objectives	Course Outcomes
1)	To expose students to the field of electroanalytical techniques like polarography	Students will develop a strong base to understand the theory and applications of polarography
2)	To get insight into thermo analytical methods.	They will get insight into thermogravimetric and thermometric titration techniques
3)	To learn about gas chromatography	They will gain confidence to handle modern instruments
4)	To understand the role of analytical chemistry in the field of food and cosmetics	The learner will gain comprehensive knowledge about the role and scope of analytical chemistry in the food and cosmetic industry
5)	To get comprehensive information about analytical methods of validation	Students will be able to comprehend the need and parameters of various analytical methods of validation