ST.JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

## SEMESTER - IV CHEMISTRY TIME:2HRS/WEEK

CH 4254 (2) **CONDUCTOMETRIC AND POTENTIOMETRIC TITRIMETRY** MAX.MARKS: 50 M

w.e.f. 20-21 admitted batch-“20AH” **PRACTICAL SYLLABUS**

**COURSE OUTCOMES:** At the end of the course, the student will be able to;

1. Use glassware, equipment and chemicals and follow experimental procedures in the laboratory
2. Apply concepts of electrochemistry in experiments
3. Be familiar with electro analytical methods and techniques in analytical chemistry which study an analyte by measuring the potential ( volts) and/or current ( amperes) in an electrochemical cell containing the analyte

## CONDUCTOMETRIC AND POTENTIOMETRIC TITRIMETRY

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1. **Conductometric titration**- Determination of concentration of HCl solution using standard NaOH solution.
2. **Conductometric titration**- Determination of concentration of CH3COOH Solution using standard NaOH solution.
3. **Conductometric titration**- Determination of concentration of CH3COOH and HCl in a mixture using standard NaOH solution.
4. **Potentiometric titration**- Determination of Fe (II) using standard K2Cr2O7 solution.
5. Determination of rate constant for acid catalyzed ester hydrolysis.

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