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

III SEMESTER   **CHEMISTRY** TIME:2HRS/WEEK

CH-Ma3-3201(3) **PHYSICAL CHEMISTRY – I** MARKS:50

w.e.f 2024-2025 (23AK Batch) **(SOLUTIONS & ELECTRO CHEMISTRY)**

**PRACTICAL SYLLABUS**

**Course Objective:** The objective of the course is to train the chemistry students in titrimetric and instrumental methods of analysis.

### **Course outcomes:** By the end of the course, the student will be able to:

1. Optimally use glassware, equipment and chemicals and follow experimental protocols in the laboratory.

2. Determine CST and study the effect of electrolyte on CST and

3. Apply the concepts of electrochemistry and perform experiments.

### **Syllabus:**

**CST, Conductometric and Potentiometric Titrimetry 50 M**

1. Determination of CST for Phenol-water system.

2. Effect of electrolyte on CST.

3. Conductometric titration - Determination of concentration of HCl solution using standard NaOH solution.

4. Conductometric titration – Determination of concentration of CH3COOH Solution using standard NaOH solution.

5. Potentiometric titration-Determination of concentration of HCl using standard NaOH solution.

### **List of reference books:**

1. A Text Book of Quantitative Inorganic Analysis(3rdEdition) –A.I.Vogel
2. Web related references suggested by teacher.

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