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

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

CH-Ma4-3251(2) **INORGANIC AND PHYSICAL CHEMISTRY** MARKS:50

w.e.f 2024-2025 (23AK Batch)  **QUALITATIVE INORGANIC ANALYSIS**

**PRACTICAL** **SYLLABUS**

**Course Objective:** The objective of the course is to train the students in the skill of qualitative inorganic analysis at semi microlevel.

**Course Outcomes:**

At the end of the course, the student will be able to:

1. Perform qualitative inorganic mixture analysis at the semimicro level.
2. Use glassware, equipment and chemicals and follow experimental laboratory protocols.
3. Apply the concepts of common ion effect, solubility product and eliminate interfering anions.

### Analysis of Mixture 50M

Analysis of mixture salt containing two anions and two cations (From two different groups) from the following:

**Anions**: Carbonate, Sulphate, Chloride, Bromide, Acetate, Nitrate, Borate, Phosphate. **Cations:** Lead, Copper, Iron, Aluminium, Zinc, Nickel, Manganese, Calcium, Strontium, Barium, magnesium and Ammonium.

Minimum of Six mixtures should be analyzed.

### Co-curricular activities and Assessment Methods

1. Continuous Evaluation: Monitoring the progress of student’s learning
2. Class Tests, Worksheets and Quizzes
3. Presentations, Projects and Assignments and Group Discussions: Enhances critical thinking skills and personality
4. SEMESTER - End Examination: critical indicator of student’s learning and teaching methods adopted by teachers throughout the SEMESTER .

### **List of Text books:**

### A Text Book of Quantitative Inorganic Analysis (3rdEdition) –A.I.Vogel

### Web related references suggested by teacher

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