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

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

CH-Ma1-3251(2) **FUNDAMENTALS IN ORGANIC CHEMISTRY** MARKS:50

w.e.f 2024-2025 (23AK Batch) **Organic Qualitative Analysis**

**PRACTICAL SYLLABUS**

**Course Objective:** The objective of the course is to train the students in qualitative or to the identification of the organic compound.

**Course Outcomes:** By the end of the course, the student will be able to;

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

2. Determine melting and boiling points of organic compounds

3. Apply theoretical concepts of organic chemistry for identification and derivatization of functional group and

4. Identify the unknown organic compound

### **Syllabus:**

Analysis of an organic compound through systematic qualitative procedure for functional group identification including the determination of melting point and boiling point with suitable derivatives. Alcohols, Phenols, Aldehydes, Ketones, Carboxylic acids, Aromatic primary amines, amides and simple sugars.

### Co-curricular activities and Assessment Methods

* Continuous Evaluation: Monitoring the progress of student’s learning
* Presentations, Projects and Assignments and Group Discussions: Enhances critical thinking skills and personality
* SEMESTER -End Examination: critical indicator of student’s learning and teaching methods adopted by teachers throughout the SEMESTER .

### **Reference books:**

1. Vogel A.I .Practical Organic Chemistry, Longman Group

2. Bansal R.K. Laboratory Manual of Organic Chemistry, Wiley-Eastern.

3.Ahluwalia V. K. and Agarwal R. Comprehensive Practical Organic Chemistry, University press.

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