Practical Plan

Name of the college: Government College of Arts, Science & Commerce, Sankhali, Goa		
Name of Faculty: Geeta Thakur	**Subject: Skills in Qualitative Organic Analysis**	
Paper code: CHC 142	**Program: F.Y.BSc.**	**Division:**
Academic year: 2025 - 2026	**Semester: I**	**Total Practical/Labs: 60 hours**
Credits: 2		

Course Objectives:

- To get hands on experience for the systematic qualitative analysis of the organic compounds.
- To learn the purification techniques for organic compounds.

Expected Course Outcome:

At the end of the course students will be able to:

1. Get hands on experience for the systematic qualitative analysis of the organic compounds.
2. Acquire skills in applying purification and separation techniques for organic compounds

Student Learning Outcome:

At the end of the course students will be able:

LO1: Demonstrate the ability for systematic qualitative analysis of the organic compounds.

LO2: Evaluate purification and separation techniques for organic compounds

Month	Practical/Labs Scheduled Date	No. of Practical /Labs planned	List of Experiments	Reference books
July	25-07-2025	1 (Batch III)	**2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants** (organic spotting) i i) Water soluble solids (Acid and Neutral) – *Any 3*	[4]

August	01-08-2025	1 (Batch III)	ii i) Water soluble solids (Acid and Neutral) – *Any 3*	[1-4]
	08-08-2025	1 (Batch III)	iii i) Water soluble solids (Acid and Neutral) – *Any 3*	[1-4]
	22-08-2025	1 (Batch III)	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – *Two compounds to be analysed of each category.*	[4]
September	12-09-2025	1 (Batch III)	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – *Two compounds to be analysed of each category.*	[4]
	19-09-2025	1 (Batch III)	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – *Two compounds to be analysed of each category.*	[4]
	26-09-2025	1 (Batch III)	iii) Liquids: Water miscible neutral, water immiscible (base/ neutral)	[4]
October	03-10-2025	1 (Batch III)	iii) Liquids: Water miscible neutral, water immiscible (base/ neutral)	[4]

References:

1. Vogel, A.I., Tatchell, A.R., Furnis, B.S., Hannaford, A.J. & Smith, P.W.G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996.
2. Mann, F.G. & Saunders, B.C. Practical Organic Chemistry Orient-Longman, 1960.
3. Pandey, O.P., Bajpai D. N. & Giri S. Practical Chemistry, Revised Edition, (For BSc. I, II, III Year Students of All Indian Universities) S. Chand Company Pvt Limited, 2014.
4. N. K. Vishnoi, Advanced Practical Organic Chemistry, third edition, 2010

* Assessment Rubrics	
Component	**Max Marks**
Practical	40