

Practical Plan

Name of the college: Government College of Arts, Science & Commerce, Sankhali, Goa		
Name of Faculty: Dr. Ranjana Gupta	Subject: Skills in Qualitative Organic Analysis (Skill)	
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: CO1: Get hands on experience for the systematic qualitative analysis of the organic compounds. CO2: 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: Analyze qualitatively any given organic compounds. LO2: Purify and separate organic compounds using various purification techniques.		

Month	Practical/Labs Scheduled Date	No. of Practical /Labs planned	List of Experiments	Reference books
July	11-07-2025	1 (Batch I)	Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) - Introduction	[1-4]
	18-07-2025	1 (Batch I)	Organic Spotting – Water soluble solid, acid	[1-4]
	25-07-2025	1 (Batch I)	Organic Spotting – Water soluble solid, neutral	[1-4]
August	01-08-2025	1 (Batch I)	Organic Spotting – Water insoluble solid, acid	[1-4]
	08-08-2025	1 (Batch I)	Organic Spotting – Water insoluble solid, base	[1-4]

	22-08-2025	1 (Batch I)	Organic Spotting – Water insoluble solid, phenol	[1-4]
September	12-09-2025	1 (Batch I)	Organic Spotting – Water insoluble solid, neutral	[1-4]
	19-09-2025	1 (Batch I)	Organic Spotting – Liquids, water miscible neutral, water immiscible	[1-4]
	26-09-2025	1 (Batch I)	Organic Spotting – Water soluble solid, acid; Water insoluble solid, base	[1-4]
October	03-10-2025	1 (Batch I)	Organic Spotting – Water insoluble solid, acid; Water insoluble solid, phenol	[1-4]
	10-10-2025	1 (Batch I)	Organic Spotting – Water insoluble solid, neutral	[1-4]

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
ISA (Practical)	10
Practical	40