	Lecture Plan		
Name of the College: Government College of Arts, S	Science and Commerce. Sanque	elim - Goa	
Name of Faculty: ASHOK MAHADEV CHODANKAR	Subject: CHEMISTRY		
Paper code: CHC 142	Program: BSc	Division:	
Academic year: 2024 - 2025	Semester: I	Total Lectures: 60	
• To explain mechanistically the chemical tests	in quantative organic analy	515.	
· · ·		515.	
Course Outcome: 1. Explain reactions involved in identifying the chen 2. Understand role of sodium fusion extract in dete	nical nature of organic compou cting the presence of heteroeld	inds. ements.	
	nical nature of organic compou cting the presence of heteroel s present in organic compound	inds. ements.	
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Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
01 AUGUST 2024 TO 03 AUGUST 2024	8.45	12.45	4	I ISA			
5 AUGUST TO 10 AUGUST 2024	8.45	12.45	4	<ol> <li>Purification of organic compounds:         <ol> <li>Solids by recrystallization process using water and ethanol as solvent and determination of melting point.</li> </ol> </li> </ol>			<ol> <li>Vogel, A.I., Tatchell, A.R., Furnis, B.S., Hannaford, A.J. &amp; Smith, P.W.G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996.</li> <li>Mann, F.G. &amp; Saunders, B.C.</li> </ol>
12 AUGUST TO 17 AUGUST 2024	8.45	12.45	4	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.			<ul> <li>Practical Organic Chemistry Orient- Longman,</li> <li>1960.</li> <li>3. Pandey, O.P., Bajpai D. N. &amp; Giri</li> <li>S. Practical Chemistry, Revised</li> <li>Edition,</li> <li>(For BSc. I, II, III Year Students of All Indian Universities) S. Chand</li> <li>Company</li> <li>Pvt Limited, 2014.</li> <li>4. N. K. Vishnoi, Advanced Practical</li> <li>Organic Chemistry, third edition,</li> <li>2010</li> </ul>
19 AUGUST TO 24 AUGUST	8.45	12.45	4	2. Identification of unknown organic compounds based on			

2024				water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.
26 AUGUST TO 31 AUGUST 2024	8.45	12.45	4	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.
2 SEPT TO 5 SEPT 2024 13 SEPT TO 14 SEPT 2024	8.45 8.45	12.45 12.45	4 4	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) ii) Water insoluble solids

16 SEPT TO 21 SEPT 2024	8.45	12.45	4	<ul> <li>(Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.</li> <li>2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting)</li> <li>ii) Water insoluble solids</li> <li>(Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.</li> </ul>	
23 SEPT TO 28 SEPT 2024	8.45	12.45	4	<ul> <li>2. Identification of unknown organic</li> <li>compounds based on</li> <li>water solubility, chemical</li> <li>type, elemental analysis,</li> <li>group test</li> <li>and physical constants</li> <li>(organic spotting)</li> <li>i) Water soluble solids</li> <li>(Acid and Neutral) –</li> </ul>	
30 SEPT TO 5 OCT 2024	8.45	12.45	4	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis,	

7 OCT TO 12 OCT 2024	8.45	12.45	4	group test and physical constants (organic spotting) i) Water soluble solids (Acid and Neutral) – 2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) Liquids: Water miscible neutral, water immiscible	
2024 14 OCT TO 19 OCT 2024	8.45	12.45	4	(base/ neutral)	
21 OCT AND 22 OCT 2024	8.45	12.45	4	EXAM	
	Component	Max Marks			
	ISA 1	(5)			
Assessment Rubrics	ISA 2	(5)			
	Practical	(20)			
	Project		-		
	Semester End Exam	(25)			