

	Practical Plan	
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Name of the college: Government college of Arts Science and commerce Sanquelim Goa.

Name of Faculty: Ms. Dipika Gosavi	Subject: Chemistry
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Paper code: CHC-142	Program: F.Y.B.Sc	Division: A
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Academic year: 2025- 2026	Semester: I	Total Practicals/Labs: 10 (30 hours)
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Credits: 1

Course Objectives:- To develop fundamental laboratory skills for determining solution properties, standardizing solutions, purifying compounds, and performing qualitative analysis with safe and accurate practices.

Expected Course Outcome:
1.To get hands on experience for the systematic qualitative analysis of the organic compounds.
2.To learn the purification techniques for organic compounds.

Student Learning Outcome:
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

Month	Practicals/Labs Scheduled Date	No. of Practical's/Labs planned	List of Experiments	Reference books
June	23/06/2025-28/06/2025		Practicals not started	
June/July	30/06/2025-05/07/2025	1	i) Solids by recrystallization process using water and ethanol as solvent and determination of melting point.	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.
July	07/07/2025-12/07/2025	1	ii) Simple distillation of acetone and determination of boiling point.	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.
July	14/07/2025-19/07/2025	1	iii) Sublimation of naphthalene/ anthracene/ camphor and determination of melting point.	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.
July	21/07/2025-26/07/2025	1	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) i) Water soluble solids (Acid and Neutral) – Any 3	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.
July/August	28/07/2025-02/08/2025	1	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) i) Water soluble solids (Acid and Neutral) – Any 3	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.
August	04/08/2025-09/08/2025	1	2. Identification of unknown organic compounds based on water solubility, chemical type, elemental analysis, group test and physical constants (organic spotting) i) Water soluble solids (Acid and Neutral) – Any 3	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.
August	11/08/2025-16/08/2025	1	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.	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.

August	18/08/2025-23/08/2025	1	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.	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.
August	25/08/2025-30/08/2025	1	GANESH CHATURTHI HOLIDAY	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.
September	01/09/2025-06/09/2025	1	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.	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.
September	08/09/2025-13/09/2025	1	ii) Water insoluble solids (Acid, Base, Phenol and Neutral) – Two compounds to be analysed of each category.	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.
September	15/09/2025-20/09/2025	1	iii) Liquids: Water miscible neutral, water immiscible (base/ neutral)	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.
September	22/09/2025-27/09/2025	1	iii) Liquids: Water miscible neutral, water immiscible (base/ neutral)	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.
September/October	29/09/2025-04/10/2025	1	iii) Liquids: Water miscible neutral, water immiscible (base/ neutral)	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.
October	06/10/2025-11/10/2025	1	Repetition	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.
October	13/10/2025-18/10/2025	1	Exam	

Assessment Rubrics

Component	Max Marks
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ISA 1	-
ISA 2	-
Practical	25
Project	-
Semester End Exam	-