

Practical Plan

Name of the college: Government College of Arts, Science & Commerce, Sanquelim-Goa				
Name of Faculty: Dr Jyosna Gawas		Subject: Botany		
Paper code: BOT-211		Program: B.Sc.		Batch: I
Academic year: 2025 - 2026		Semester: III		Total Practicals/Labs: 15
Credits: 01				
Course Objectives: Enable students to observe the diversity of interactions between plants and animals.				
Course Learning Outcome: On completion of this course, students will be able to understand the relationships between plants and animals for the well-being of both the groups.				
Student Learning Outcome: 1. Identify and classify plant-animal interactions, pollination syndromes, and dispersal mechanisms by observing morphological and ecological adaptations in plants and animals through field visits, photographs, and videos 2. Analyze adaptive features of flowers, fruits, seeds, and animals in relation to pollination and dispersal				
Month	Practicals/Labs Scheduled Date	No. of Practicals/Labs planned	List of Experiments	Reference books
June	2/07/2025	1	Study of plant-animal interactions – parasitism, mutualism, antagonism, commensalism, competition (campus visit / videos / photographs).	
July	9/07/2025	1	Study of floral adaptation to different pollinators (insects, birds and mammals).	
	16/07/2025	1	Study of morphological adaptations in plants for fruit and seed dispersal.	
	23/07/2025	1	Study of morphological adaptations in animals for fruit and seed dispersal.	
	30/07/2025	1	Microscopic observation of plant galls.	

August	06/08/2025	1	Isolation of nectar from flowers and detection of sugars Benedict's reagent.
	13/08/2025	1	Detection of the presence of osmophores in flowers (orchid / jasmine / or any other suitable flower).
	20/08/2025	1	Plant defenses against herbivores (videos / photographs).
September	3/09/2025	1	Campus trip
	10/09/2025	1	Study of traps - lobster pot, pitfall in carnivorous plants (fresh specimens / videos / photographs)
	17/09/2025	1	Study of traps - snap, flypaper, bladder in carnivorous plants (fresh specimens / videos / photographs)
	24/09/2025	1	Study of fig-wasp mutualism (field visit / videos).
October	1/10/2025	1	Campus visits to observe plant-animal interactions, pollinators and dispersers.
	8/10/2025	1	Journal completion, correction and certification
	15/10/2025	1	Practical Exam

Assessment Rubrics

Component	Max Marks
ISA 1	NA
ISA 2	NA
ISA 3	NA
Practical	25
Project	NA
Semester End Exam	NA