

### Semester Lecture Plan (Practical)

**Name of the college:** Government College of Arts, Science & Commerce, Sanquelim

**Name of Faculty:** Dr Jyosna Gawas

**Subject:** Botany

**Paper code:** BOT-211

**Program/Course:** S.Y.B.Sc.

**Division:** A

**Academic year:** 2024-2025

**Semester:** III

**Total Lectures:** 30

**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.

Week	Date	No. of days/week	Experiment	Exercise/ Assignment	ICT tools	Reference books
1	3/7/2024	1	Study of plant-animal interactions – parasitism, mutualism, antagonism, commensalism, competition (campus visit / videos / photographs).	Watch videos on plant animal interaction, pollination and seed dispersal	-	Plant-animal Interactions by W. G. Abrahamson  Plant Ecology by M. J. Crawley
2	10/7/2024	1	Study of floral adaptation to different pollinators (insects, birds and mammals).			
3	17/7/24	1	Study of morphological adaptations in plants for fruit and seed dispersal.			
4	24/7/24	1	Campus visit			
5	31/8/24	1	Study of morphological adaptations in animals for fruit and seed dispersal.			
6	7/8/24	1	Study of morphological adaptations in animals for fruit and seed dispersal.			
7	14/8/24	1	Isolation of nectar from flowers and detection of sugars Benedict's reagent.	-		
8	21/8/24	1	Detection of the presence of osmophores in flowers (orchid / jasmine / or any other suitable flower).	-		
9	28/8/24	1	Microscopic observation of plant galls.	-		
10	4/9/24	1	Plant defenses against herbivores (videos / photographs).	-		
11	18/9/24	1	Study of traps - snap, flypaper, bladder, lobster pot, pitfall - in carnivorous plants (fresh specimens / videos / photographs)	Watch more videos on		

12	25/9/24	1	Study of fig-wasp mutualism (field visit / videos).	these topics		
13	9/10/24	1	Field visits to observe plant-animal interactions, pollinators and dispersers.	--		
14	16/10/24	1	Journal completion, correction and certification			
15	*	1	Field trip			

\*Will be conducted on any suitable day

#### Assessment Rubrics

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