Semester Lecture Plan (Theory)

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

Name of Faculty: Dr Jyosna Gawas | **Subject:** Botany

Paper code: BOT-100 | **Program/Course:** F.Y.B.Sc. | **Division:** A

Academic year: 2025-2026 | **Semester: II** | **Total Lectures:** 15

Course Objectives: This course aims to increase the understanding about the diversity of morphological and anatomical features

Course Outcome: Students will be able to analyse the morphological and anatomical features of plants.

Month	Lectures		No. of lectures allotted	Topic, subtopic to be covered	Exercise/ Assignment	ICT tools	Reference books
	From	To					
	1/12/2025	6/12/2025	1	General introduction. Importance of morphology	Observe the learnt characters in the plants around you	Chalk and board; Powerpoint presentation	Taxonomy of Vascular Plants by G. H. M Lawrence Plant systematics: Theory and Practice by G Singh Taxonomy of Practical Botany-II by A. M. Bendre & A. Kumar
	8/12/2025	13/12/2025	1	Types of roots (Tap, fibrous and adventitious),			
	1512/2025	20/12/2025	1	Stem (aerial),			
	22/12/2025	27/12/2025	0	Christmas vacation			
	1/1/2026	3/1/2026	1	Stem (underground)			
	5/1/2026	10/1/2026	1	Parts of leaf			
	12/1/2026	17/1/2026	1	Phyllotaxy – Alternate, spiral, opposite, whorled; leaf types - compound, simple; leaf venation - parallel and reticulate.			
	19/1/2026	24/1/2026	1	Shapes of leaves; leaf margins, leaf apex, vernation; inflorescence types – cymose and racemose	-		
	26/1/2026	31/1/2026	1	flower (parts, symmetries, functions of different parts of the flower, aestivation types			

	2/2/2026	7/2/2026	1	Fruit - Simple, Aggregate, Multiple; Seed and its structure	-		
	9/2/2026	14/2/2026	1	Embryo; seed types; germination in *Ricinus* and *Cucurbita*	-		
	16/2/2026	21/2/2026	1	Seed dispersal mechanisms	Collect seeds with outgrowths		
	23/2/2026	28/2/2026	1	Tissues in plants: Meristems – types, positions, functions	-		
	2/3/2026	7/3/2026	1	Simple tissues– Parenchyma– its positions, functions	-		
	9/3/2026	14/3/2026	1	ISA III; Collenchyma, Sclerenchyma – their positions, functions	-		
	16/3/2026	21/3/2026	1	Vascular tissue – xylem - positions, functions	-		
	23/3/2026	28/3/2026	1	Vascular tissue – phloem - positions, functions	-		
	30/3/2026	31/3/2026	1	Revision	-		

* Assessment Rubrics

Component	Max Marks
ISA 1	NA
ISA 2	NA
ISA 3	7.5
Practical	NA
Project	NA
Semester End Exam	60