

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-303		Program: B.Sc.	Batch: I	
Academic year: 2026-2027		Semester: V	Total Practicals/Labs: 15	
Credits: 01				
Course Objectives: To provide students with skills in field plant taxonomy and ecology				
Expected Course Outcome: To develop competence in botanical fieldwork by accurately identifying and documenting plant species using standard field tools, herbarium techniques, floristic keys, and digital applications				
Student Learning Outcome: Students will be able to identify, collect, and document plant species in natural habitats using standard field tools, floristic keys, and digital methods while following ethical fieldwork practices.				
Month	Practicals/Labs Scheduled Date	No. of Practicals / Labs planned	List of Experiments	Reference books
June	19/06/26	0	-	Leaf based identification for Trees of Sahyadri. By S. Inganhalekar
	26/06/26	1	Familiarization with common field tools used in botany (hand lens, trowel, secateur, GPS device, vasculum and plant press).	
July	03/07/26	1	Study of canopy morphology of <i>Garcinia indica</i> , <i>Alstonia scholaris</i> , <i>Mangifera indica</i> , <i>Terminalia paniculata</i> , <i>Polyalthia longifolia</i> and <i>Sterculia foetida</i> (sketch to be drawn).	Plant systematics: Theory and Practice by G Singh
	10/07/26	1	Preparation and submission of one herbarium specimen each of angiosperm, bryophyte and pteridophyte.	
	17/07/26	1	Preparation and submission of one herbarium specimen each of angiosperm, bryophyte and pteridophyte.	

August	24/07/26	1	Preparation and submission of one herbarium specimen each of an alga, fungus and lichen.
	31/07/26	1	Collection of wild seeds and growing them in the nursery.
	07/08/26	1	Demonstration of wet preservation of angiosperms, algae, fungi, bryophytes, pteridophytes and lichens.
	14/08/26	1	Demonstration of wet preservation of angiosperms, algae, fungi, bryophytes, pteridophytes and lichens.
	21/08/26	1	Navigation in field using toposheet and compass in the campus.
	28/08/26	2	Identification of species (any 5) of genus <i>Terminalia</i> / <i>Ipomoea</i> using keys in Flora books.
September	04/09/26	1	Day field trip to mangrove forest area for in-field identification using Flora books. a. Identification of plants using automated image recognition apps (to be conducted during field trip). b. Demonstration of using GPS devices for location tagging during fieldwork (to be conducted during field trip).
	11/09/26	2	Identification of any five Fabaceae specimens using Flora books.
	18/09/26	0	Ganesh Chaturthi brake
	25/09/26	2	Field trip to area with natural vegetation for plant collection and in-field identification using Flora books. a. Identification of 10 trees using leaf-based keys (to be conducted during field trip). b. Creating digital logs and recording phenological data (to be conducted during field trip).
October	09/10/2026		Journal correction and certification

Assessment Rubrics

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