

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-141		Program: B.Sc.	Batch: I			
Academic year: 2025-2026		Semester: II	Total Practicals/Labs: 30			
Credits: 02						
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To provide hands-on training in nursery management, garden layout preparation, plant propagation, and cultivation practices. 2. To develop practical skills in compost preparation, seedling raising, potting, ornamental gardening, and maintenance of plants and gardens. 						
<p>Expected Course Outcome:</p> <ol style="list-style-type: none"> 1. Explain the scope and importance of nurseries and gardens. 2. Describe planning, layout, and management of nurseries. 3. Design and distinguish types of gardens and their features. 4. Apply knowledge of plant propagation and maintenance practices. 						
<p>Student Learning Outcome:</p> <ol style="list-style-type: none"> 1. Students will be able to prepare nursery and garden layouts, raise seedlings, propagate plants, and cultivate vegetables and ornamental plants using appropriate techniques. 2. Students will be able to identify garden plants, use horticultural tools effectively, create innovative gardens (vertical, terrarium, window boxes), and apply proper aftercare practices. 						
Month	Practicals/Labs Scheduled Date	No. of Practicals /Labs planned	List of Experiments			
December	5/12/2025	2	Preparation of a layout sketch of a nursery.			
			Preparation of compost.			
	12/12/2025	1	Preparation of layout sketches of any 2 types of gardens			
Textbook of horticulture by K. Manibhushan Rao						

January	2/1/2026	2	Familiarization with various tools, implements and plant support	Horticulture by V. L. Sheela
			Raising of any 2 seedlings in seed trays, preparation of potting mix, transplanting of seedlings in pots and bags; care and maintenance of plants till flowering/maturity.	
	9/1/2026	2	ISA I, Cultivation of any 3 vegetables in the College Botanical Garden (red amaranth, cluster beans, cucurbits, chillies, lady's finger, ginger and tomato).	Plant Propagation: Principles and Practices by H. T. Hartmann, D. L. Kester, F. T. Davies & R. L. Geneve
	16/1/2026	1	Raising of any 2 seedlings in seed trays, preparation of potting mix, transplanting of seedlings in pots and bags; care and maintenance of plants till flowering/maturity.	
	23/1/2026	2	Identification and description of any 2 plants used for avenues, hedges, flower beds, lawns, ornamental shrubs, rock garden, water garden and indoor garden.	
	30/1/2026	1	Treatment of seeds of coriander or other suitable seeds to break dormancy and to find germination percentage of treated seeds.	
February	6/2/2026	1	ISA II, Propagation of plants by cutting, layering, budding, grafting, runners, suckers, corms, bulbs, bulbils and tubers.	
	13/2/2026	2	Preparation of a coir stick/coir basket. Preparation of a terrarium.	
	20/2/2026	1	Preparation of a garden in window boxes, troughs and trays (any 2).	
	27/2/2026	1	Preparation/creation of a vertical garden and its after care.	
March	6/3/2026	1	ISA III, Preparation of potting medium and cultivation of different types of potted plants (foliage, succulent, anthurium and orchid).	Horticulture in India by G. S. Randhawa & A. Mukhopadhyay
	13/3/2026	1	Demonstration of cultivation of house plants and after care of upright and climbing plants.	
	20/3/2026	2	Field visit to a plant nursery or landscape garden.	
	27/3/2026		Practical Exam	

Assessment Rubrics

Component	Max Marks
ISA 1	05
ISA 2	05
ISA 3	05
Practical	40
Project	NA
Semester End Exam	NA