

Practical Plan

Name of the college: Government College of Arts, Science & Commerce, Sanquelim-Goa				
Name of Faculty: Dr Tanvi Nitin Prabhu		Subject: Botany		
Paper code: BOT 141 (Nursery and Gardening)		Program: F.Y.B.Sc	Batch: - NA	
Academic year: 2025 - 2026		Semester: II	Total Practicals/Labs: 15	
Credits: 02				
Course Objectives: <ol style="list-style-type: none"> To study the concepts and basics of operation and management of nursery and gardens. To acquire hands-on training of various techniques used in nursery raising and gardening. 				
Expected Course Outcome: <ol style="list-style-type: none"> Acquire knowledge about basic nursery layout and management practices. Develop skills in kitchen gardening for cultivation of different vegetables. Understanding gardening skills and routine operations of vertical garden. 				
Student Learning Outcome: <ol style="list-style-type: none"> Understand the basics of nursery and gardening Familiarize students with nursery management practices like sowing, planting, potting, vegetative propagation, seed storage and plant protection. Acquire knowledge about various indoor gardening including vertical garden, bonsai, terrarium. Develop skills in kitchen gardening among students. Familiarize students to establish start-ups in gardening or work as landscape designers. 				
Month	Practicals/Labs Scheduled Date	No. of Practicals/Labs planned	List of Experiments	Reference books

December 2025	05.12.2025	01	Preparation of a layout sketch of a nursery. Preparation of Compost	
December 2025	12.12.2025	01	Preparation of layout sketches of any 2 types of gardens.	
January 2026	02.01.2026	01	Familiarization with various tools, implements and plant supports.	
January 2026	09.01.2026	01	Identification and description of any 2 plants used for avenues, hedges, flower beds, lawns, ornamental shrubs, rock garden, water garden and indoor garden.	
January 2026	16.01.2026	01	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.	
January 2026	23.01.2026	01	Treatment of seeds of coriander or other suitable seeds to break dormancy and to find germination percentage of treated seeds.	
January 2026	30.01.2026	01	Propagation of plants by cutting, layering, budding, grafting, runners, suckers, corms, bulbs, bulbils and tubers.	
February 2026	06.02.2026	01	Preparation of a coir stick/coir basket.	
February 2026	13.02.2026	01	Preparation of a garden in window boxes, troughs and trays (any 2).	
February 2026	20.02.2026	01	Preparation of a terrarium.	
February 2026	27.02.2026	01	Field visit	
March 2026	06.03.2026	01	Preparation/creation of a vertical garden and its after care.	
March 2026	13.03.2026	01	Preparation of potting medium and cultivation of different types of potted plants (foliage, succulent, anthurium and orchid).	
March 2026	27.03.2026	01	Revision, Journal completion and certification	

Assessment Rubrics

Component	Max Marks
ISA 1	5
ISA 2	5
ISA 3	5
Practical	40
Project	-
Semester End Exam	-