

Practical Plan		
Name of the college: GOVERNMENT COLLEGE OF ARTS, SCIENCE AND COMMERCE, SANQUELIM- GOA		
Name of Faculty: MS. SHUBHA SHIVDAS KAUTHANKAR	Subject: BOTANY	
Paper code: BOT141: NURSERY AND GARDENING	Program: F.Y.B.Sc.	Division: -
Academic year: 2024- 2025	Semester: II	Total Practicals/Labs: 15 × 4 = 60 Hours
Credits: 2 (4 Hours)		
<b>Course Objectives:</b> 1) To study the concepts and basics of operation and management of nursery and gardens. 2) To acquire hands- on training of various techniques used in nursery raising and gardening.		
<b>Expected Course Outcome:</b> 1) Acquire knowledge about the basic nursery layout and management practices. 2) Develop skills in kitchen gardening for cultivation of different vegetables. 3) Understand gardening skills and routine operations of vertical garden, vegetable garden, etc.		
<b>Student Learning Outcome:</b> 1) Understand the basics of nursery and gardening. 2) Familiarize students with nursery management practices like sowing, planting, potting, vegetative propagation, seed storage and plant protection. . 3) Acquire knowledge about various indoor gardening including vertical garden, bonsai, terrarium and its routing operations.. 4) Develop skills in kitchen gardening among students. 5) Familiarize students to establish start-ups in gardening or work as landscape designers.		

Month	Practicals/Labs Scheduled Date	No. of Practical/Labs planned	List of Experiments	Reference books
December 2024	13/12/2024	4 HOURS	Preparation of a layout sketch of a nursery.	1. Horticulture- V. L. Sheela  2. Introduction to Horticulture- N. Kumar  3. Sambamurty, A.V.S.S. and Subramanyam, N.S. 1989. A Textbook of Economic Botany  4. Medicinal Plant Cultivation: S.S.Purohit and S.P.Vyas  5. Roa, PS (2016) Vegetable crops production, Sonali Publications, New Delhi  6. Textbook of Horticulture- V.L. Sheela
January 2025	03/01/2025	4 HOURS	Familiarization with various tools, implements and plant supports.	
January 2025	10/01/2025	4 HOURS	Raising of any 2 seedlings in seed trays, preparation of potting mix, Preparation of a coir stick/coir basket	
January 2025	17/01/2025	4 HOURS	Cultivation of any 3 vegetables in the College Botanical Garden (red amaranth, cluster beans, cucurbits, chillies, lady's finger, ginger and tomato)	
January 2025	24/01/2025	4 HOURS	ISA 01 Preparation of Compost, Preparation of layout sketches of any 2 types of gardens.	
January 2025	31/01/2025	4 HOURS	Preparation/creation of a vertical garden and its after care	
February 2025	07/02/2025	4 HOURS	Preparation of a garden in window boxes, troughs and trays (any 2). Preparation/creation of a vertical garden and its after care	
February 2025	14/02/2025	4 HOURS	Transplanting of seedlings in pots and bags; care and maintenance of plants till flowering/maturity, Treatment of seeds of coriander or other suitable seeds to break dormancy and to find germination percentage of treated seeds.	
February 2025	21/02/2025	4 HOURS	ISA 02 + Preparation of potting medium and cultivation of different types of potted plants (foliage, succulent, anthurium and orchid).	
February 2025	28/02/2025	4 HOURS	Demonstration of cultivation of house plants and after care of upright and climbing plants	
March 2025	07/03/2025	4 HOURS	Propagation of plants by cutting, layering, budding, grafting, runners, suckers, corms, bulbs, bulbils and tubers	
March 2025	21/03/2025	4 HOURS	ISA 03 + Preparation of a terrarium.	
March 2025	28/03/2025	4 HOURS	Field visit to a plant nursery or landscape garden	
April 2025	04/04/2025	4 HOURS	Identification and description of any 2 plants used for avenues, hedges, flower beds and indoor garden.	
April 2025	11/04/2025	4 HOURS	Revision and Journal certification	

**\* Assessment Rubrics**

Component	Max Marks
ISA 1	5
ISA 2	5
ISA 3	5
Practical	40
Project	-
Semester End Exam	20

