

ODD SEMESTER LECTURE PLAN (PRACTICAL)_2026_2027					
Name of the college: Government College of Arts, Science and Commerce, Sanquelim Goa					
Name of Faculty: Dr. Nisha Kevat		Subject: Botany			
Paper code: BOT 142		Program/Course: F.Y B.Sc.		Division: - --	
Academic year: 2026 - 2027		Semester: I		Total Lectures: 60 Hours	
Course Objectives: 1. This course aims to increase the understanding about the different types of gardens, their features and routine operations in nursery management and gardening. 2. The Practical component of this course aims to impart skill in designing a plant nursery, different types gardens, cultivation practices to be followed in operating a plant nursery and garden.					
Course Learning Outcome: On completion of this course students will be able to: CO1: Recall the principles of plant nursery establishment, garden types, garden features, and routine horticultural practices. CO2: Explain the planning, design, management, and maintenance requirements of nurseries and gardens. CO3: Describe the principles involved in the planning, design, management, and maintenance of nurseries and gardens. CO4: Apply appropriate techniques for nursery operations, plant propagation, garden development, and plant care practices.					
Month	Lecture	No. of lectures allotted	No. of Practicals/Labs planned	List of Experiment	Reference books
June (1 st Week)	25/06/2026	4 H	02	Practical 1: a. Preparation of Layout sketch of a nursery. b. Preparation of layout sketches of Mughal Garden.	1. Acquaah, G (2019). Horticulture: Principles and Practices (4 th edition). India: Pearson India Education Services Pvt. Ltd. 2. Agrawal, PK (1993). Hand Book of Seed Technology. Department of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.
July (2 nd Week)	02/07/2026	4 H	02	Practical 2: a. Preparation of layout sketches of Chinese and Japanese Garden. b. Familiarization with various tools.	
July (3 rd Week)	9/07/2026	4 H	1	Practical 3: Cultivation of any 3 vegetables in the college Botanical Garden (red amaranth, cluster beans , cucurbits, chillies, lady finger and tomato)	

July (4 th Week)	16/07/2026	4 H	1	Practical 4: a. Familiarization with various implements and plant supports. After care of the Vegetable crops grown.	3. Alphonso, N (2004). Home Gardening. Agriculture Officers' Association, Panaji – Goa. 4. Bose, TK and Mukherjee, D (1972). Gardening in India. Oxford & IBH Publishing Co., New Delhi. 5. Courtier, J and Clarke, G (1997). Indoor plants: The Essential Guide to Choosing and Caring for Houseplants. Reader's Digest, New York. 6. Edmond, JB, Musser, AM and Andrews, FS (1957). Fundamentals of Horticulture. McGraw Hill Book Co., New Delhi. 7. Janick, J (1979). Horticultural Science (3rd edition). W.H. Freeman & Co., San Francisco, USA. 8. Kumar, N (1997). Introduction to Horticulture. Rajalakshmi Publications, Nagercoil. 9. Randhawa, GS and Mukhopadhyay, A (1986). Floriculture in India. Allied Publishers Limited, New Delhi. edition). MacMillan India Limited, New Delhi. 10. Rao, PS (2016). Vegetable Crops Production. Sonali Publications, New Delhi. 11. Sandhu, MK (1989). Plant
July (5 th Week)	23/07/2026	4 H	2	Practical 5: a. Identification and description of two plants used for Avenues, Hedges, Flower beds and Lawns. b. Identification and description of two plants used for Ornamental Shrubs, rock garden, water garden and indoor garden.	
July (6 th Week)	30/07/2026	4 H	2	Practical 6: a. Preparation of pro tray mix for the raising the seedlings. b. Preparation of pot mix and transplanting of seedlings in pots and bags.	
August (7 th Week)	06/08/2026	4 H	2	Practical 7: a. Treatment of Seeds of Coriander or other suitable seeds to break dormancy and to find germination percentage of treated seeds. b. Propagation of plants by cutting, Budding, Grafting.	
August (8 th Week)	13/08/2026	4 H	2	Practical 8 : a. Propagation of plants by runners, suckers, corms b. Propagation of plants by bulbils and tubers.	
August (9 th Week)	20/08/2026	4 H	2	Practical 9: a. Preparation of Coir stick/Coir Basket. b. Preparation of a garden in window boxes, trough and trays	
August (10 th Week)	27/09/2026	4 H	2	Practical 10: a. Preparation of a garden trough and trays b. Preparation of Terrarium.	
September (11 th Week)	3/09/2026	4 H	1	Practical 11: Preparation of a vertical garden and its after care in subsequent practicals.	
September (12 th Week)	10/09/2026	4 H	2	Practical 12 : Preparation of potting medium and cultivation of different types of potted plants (foliage, succulent, anthurium and orchid).	
September (13 th Week)	24/09/2026	4 H	2	Practical 13 : Demonstration of cultivation of house plants and after care of upright and climbing plants.	

October (14 th Week)	01/10/2026	4 H	2	Practical 14: Care and Maintainance of plants till flowering or maturity of the transplanted seeds.	Propagation. Wiley Eastern Ltd., Bangalore. 12. Stvenson, V (1984). Plants and Flowers in the Home. Treasure Press, London.
October (15 th Week)	8/10/2026	4 H	2	Practical 15: Preparation of compost.	

*Note: Data filled in the above form is sample data.

Assessment Rubrics (Practical_

Component	Max Marks
ISA 1	
ISA 2	
ISA 3	
Practical	50
Project	NA
Semester End Exam	NA