

OOOEVEN SEMESTER THEORY PLAN (AY 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: 15 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 Theory 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 lecture s allotted	Topic, Subtopic to be covered	Exercise/Assignment	ICT Tools	Reference books
June (1 st Week)	22/06/2026	1 H	Lecture 1: Module 1: Plant nursery, gardens and their management Definition, objectives and scope of a plant nursery and garden.	Write the definitions of plant nursery and garden and list any three objectives of a plant nursery.	Power point presentation, You study lecture related videos	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
June (2 nd Week)	29/06/2026	1 H	Lecture 2: Plant nursery layout,	Draw a simple labelled layout of a plant nursery showing important sections (seed	Power point presentation, You study lecture related videos	

			infrastructure, planning and seasonal activities;	beds, potting area, irrigation, shade house, etc.).		Technology. Department of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi. 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. Kumar, N (1997).
July (3 rd Week)	06/07/2026	1 H	Lecture 3: Marketing challenges.	List any five challenges faced by plant nurseries while selling plants.	Power point presentation, You study lecture related videos	
July (4 th Week)	13/07/2026	1 H	Lecture 4: Different types of gardens and their design: indoor garden (gardening in window boxes, tubs, troughs, trays and hanging baskets)	Observe any indoor plants at your home or college and write three advantages of indoor gardening.	Power point presentation, You study lecture related videos Demonstration	
July (5 th Week)	20/07/2026	1 H	Lecture 5: vertical garden; terrarium; bonsai)	Differentiate between vertical garden, terrarium and bonsai using one point each .	Offline Power point presentation, You study lecture related videos	
July (6 th Week)	27/07/2026	1 H	Lecture 6 : and outdoor garden (landscape, avenue plantation,	Match the type of garden with its main purpose (teacher-provided worksheet) or list any four types of outdoor gardens.	Power point presentation, You study lecture related videos	
August (7 th Week)	03/08/2026	1 H	Lecture 7 : park, rock garden, water garden, terrace garden and kitchen garden).	Draw and label any five garden features such as hedge, path, lawn, arch and pergola.	Power point presentation, You study lecture related videos	
August (8 th Week)	10/08/2026	1 H	Lecture 8: Features of a garden (fence, hedge, edge, steps, drives and paths; arches, pergolas, lawns,	Identify any five garden features from photographs shown in class and write their names.	Power point presentation, You study lecture related videos	
August (9 th Week)	17/08/2026	1 H	Lecture 9: carpet bed, flower bed, shrubbery, border, topiary,	List three steps involved in soil preparation and two methods of breaking seed dormancy.	Power point presentation, You study lecture related videos	
August (10 th Week)	24/08/2026	1 H	Lecture 10: plant supports,	Write two differences between direct seeding and transplanting .	Power point presentation, You study lecture related videos	

			adornments).			Introduction to Horticulture. Rajalakshmi Publications, Nagercoil. 8. Randhawa, GS and Mukhopadhyay, A (1986). Floriculture in India. Allied Publishers Limited, New Delhi. edition). MacMillan India Limited, New Delhi. 9. Rao, PS (2016). Vegetable Crops Production. Sonali Publications. New Delhi. 10. Sandhu, MK (1989). Plant Propagation. Wiley Eastern Ltd., Bangalore. 11. Stevenson, V (1984). Plants and Flowers in the Home. Treasure Press, London.
August (11 th Week)	31/08/2026	1 H	Lecture 11 : Preparation of soil, methods of breaking seed dormancy,	Explain the terms hardening, irrigation, and manuring in one sentence each .	Power point presentation, You study lecture related videos	
September (12 th Week)	07/09/2026	1 H	Lecture 12 : planting (direct seeding and transplanting),	Match each technique (staking, pinching, pruning, defoliation) with its correct purpose .	Power point presentation, You study lecture related videos	
September (13 th Week)	21/09/2026	1 H	Lecture 13: hardening, irrigation, manuring,	List any three common pests or diseases observed in garden plants and mention one control measure for each.	Power point presentation, You study lecture related videos	
September (14 th Week)	28/09/2026	1 H	Lecture 14: staking, pinching, pruning and defoliation;	Observe a garden plant and identify whether it needs staking, pruning, or pinching . Give a reason.	Power point presentation, You study lecture related videos	
October (15 th Week)	5/10/2026	1 H	Lecture 15: management of pests and diseases	Observe one plant at home or on campus and write whether it appears healthy or diseased . Mention one visible symptom , if any..	Power point presentation, You study lecture related videos	
October (16 th Week)	12/10/2026	1 H	Lecture 16 : Revisions	Answer 10 short objective questions or prepare a one-page concept map covering all topics discussed in the module.	Power point presentation, You study lecture related videos	

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