

Lecture Plan

Name of the college: Government college of arts science and commerce Sanquelim-Goa

Name of Faculty: Anuja Naik

Subject: Botany (Nursery and gardening)

Paper code: BOD-105

Program/Course: F.Y B.Sc.

Division: A

Academic year: 2024 - 2025

Semester: II

Total Lectures: 30

Course Objectives: This course aims to increase the understanding about the different types of gardens, their features and routine operations in nursery management and gardening. 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: 1. Explain the objective and scope of a plant nursery and garden.
2. Describe the different types of gardens and their features.
3. Analyze the different routine operations in nursery management and gardening.
4. Develop skills in designing a plant nursery and different types of gardens, routine operations in gardening and nursery management, cultivation practices for entrepreneurial opportunities.

Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Learning outcome	Exercise/ Assignmen t	ICT Tool s	Reference books
January	3-1-25	4-1-25	1	Preparation of layout sketches of any 2 types of gardens.	Students learn to draw layout of kitchen garden.			Agrawal, PK (1993). Hand Book of Seed Technology. Department of Agriculture and Cooperation, National Seed Corporation Ltd., New
	6-1-25	11-1-25	1	Preparation of layout sketches of any 2 types of gardens.	Students learn to draw layout of water garden.			
	6-1-25	11-1-25	1	Identification and description of any 2 plants used for avenues, hedges, flower beds, lawns,	Students identify and describe different types of plants used such as avenues,	Students were told to identify more such type of		

				ornamental shrubs, rock garden, water garden and indoor garden.	hedges, flower beds, lawns, ornamental shrubs, rock garden, water garden and indoor garden.	plants from their surroundings.	<p>Delhi.</p> <p>Sandhu, M.K. 1989. Plant Propagation. Wiley Eastern Ltd., Bangalore.</p>
	13-1-25	18-1-25	1	Identification and description of any 2 plants used for avenues, hedges, flower beds, lawns, ornamental shrubs, rock garden, water garden and indoor garden.	Students identify and describe different types of plants used such as avenues, hedges, flower beds, lawns, ornamental shrubs, rock garden, water garden and indoor garden.	Students were told to identify more such type of plants from their surroundings.	
	20-1-25	25-1-25	1	Treatment of seeds of coriander or other suitable seeds to break dormancy and to find germination percentage of treated seeds.	Students learn to break the dormancy of the seeds and also find out germination percentage of seeds treated with Gibberellin.		
	27-1-25	31-1-25	1	Propagation of plants by budding, grafting, bulbs, bulbils and tubers.	Students learn and take hands on training on the propagation techniques such as budding, grafting, bulbs, bulbils and tubers.	Students were asked to perform grafting at home.	
February	3-2-25	8-2-25	1	Cultivation of any 3 vegetables in the College Botanical Garden (red amaranth,	Students prepare the land by ploughing and rotating the soil		

				cluster beans, cucurbits, chillies, lady's finger, ginger and tomato).	and then sow the seeds of different vegetables			
	10-2-25	15-2-25	1	Preparation of a terrarium	Students prepare a terrarium in a lab			
	17-2-25	22-2-25	1	Preparation of potting medium and cultivation of different types of potted plants (succulent and orchid).	Students prepare a potting mix and cultivate succulent and orchids			
	24-2-25	28-2-25	1	ISA II	ISA II			
March	3-3-25	8-3-25	1	Preparation of a coir stick/coir basket.	Students prepare both coir stick and			
	10-3-25	15-3-25	1	Demonstration of cultivation of house plants and after care of upright and climbing plants	Students take care and maintain the cultivated plants			
	17-3-25	22-3-25	1	Preparation of compost.	Students learn how to prepare a compost from kitchen waste.			
	24-3-25	29-3-25	1	Cultivation of any 3 vegetables in the College Botanical Garden (red amaranth, cluster beans, cucurbits, chillies, lady's finger, ginger and tomato) care and maintenance	Students take care and maintain the cultivated plants			

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