

### Semester Lecture Plan (Theory)

<b>Name of the college:</b> Government College of Arts, Science and Commerce, Sanquelim															
<b>Name of Faculty:</b> Dr Jyosna Gawas		<b>Subject:</b> Botany													
<b>Paper code:</b> BOT-141		<b>Program/Course:</b> F. Y. B.Sc.		<b>Division:</b> A											
<b>Academic Year:</b> 2025-2026		<b>Semester:</b> II		<b>Total Lectures:</b> 15											
<b>Course Objectives:</b> To impart practical knowledge and skills in nursery layout preparation, compost making, plant propagation, and garden establishment. To train students in raising, maintaining, and cultivating ornamental and vegetable plants using appropriate tools and sustainable horticultural practices.															
<b>Expected Course Outcome:</b> On completion of the course, students will be able to <ol style="list-style-type: none"> <li>1. Explain the scope and importance of nurseries and gardens.</li> <li>2. Describe planning, layout, and management of nurseries.</li> <li>3. Design and distinguish types of gardens and their features.</li> <li>4. Apply knowledge of plant propagation and maintenance practices.</li> </ol>															
<b>Student Learning Outcome:</b> <ol style="list-style-type: none"> <li>1. Learners will be able to design nursery and garden layouts, prepare compost and potting media, raise seedlings, and propagate plants using standard horticultural techniques.</li> <li>2. Learners will be able to cultivate vegetables and ornamental plants, identify garden plants and tools, and create and maintain innovative gardens such as vertical gardens, terrariums, and container gardens.</li> </ol>															
<b>Month</b>	<b>Lectures</b>		<b>No. of lectures allotted</b>	<b>Topic, Subtopic to be covered</b>	<b>Exercise/Assignment</b>	<b>ICT Tools</b>	<b>Reference books</b>								
	<b>From:</b>	<b>To:</b>													
December	1/12/2025	6/12/2025	1	General introduction about gardens and nurseries		Chalk and board, ppt	Textbook of horticulture by K. Manibhushan Rao								
	8/12/2025	13/12/2025	1	Definition, objectives and scope of a plant nursery			Horticulture by V. L. Sheela								
	15/12/2025	20/12/2025	0	--											
	22/12/2025	27/12/2025	1	Definition, objectives and scope of a garden; Plant nursery layout, infrastructure.											

January	1/1/2026	3/1/2026	1	Plant nursery planning and seasonal activities; marketing challenges.			Plant Propagation: Principles and Practices by H. T. Hartmann, D. L. Kester, F. T. Davies & R. L. Geneve  Horticulture in India by G. S. Randhawa & A. Mukhopadhyay
	5/1/2026	10/1/2026	1	Different types of gardens and their design: indoor garden (gardening in window boxes, tubs, troughs, trays and hanging baskets)			
	12/1/2026	17/1/2026	1	ISA I, Different types of gardens and their design: indoor garden (vertical garden; terrarium)			
	19/1/2026	24/1/2026	1	Different types of gardens and their design: indoor garden (bonsai)			
	26/1/2026	31/1/2026	1	outdoor garden (landscape, avenue plantation, park, rock garden).			
February	2/2/2026	7/2/2026	1	Outdoor garden (water garden, terrace garden and kitchen garden).			
	9/2/2026	14/2/2026	1	ISA II			
	16/2/2026	21/2/2026	1	Features of a garden (fence, hedge, edge, steps, drives and paths; arches,)			
	23/2/2026	28/2/2026	1	Features of a garden (pergolas, lawns, carpet bed, flower bed, shrubbery, border, topiary, plant supports, garden adornments)			
March	2/3/2026	7/3/2026	1	Preparation of soil, methods of breaking seed dormancy, planting direct s e e d i n g and transplanting), hardening,			
	9/3/2026	14/3/2026	1	Irrigation, manuring			
	16/3/2026	21/3/2026	1	Staking, pinching, pruning and defoliation			
	23/3/2026	28/3/2026	1	Management of pests and diseases			
	30/3/2026	31/3/2026	1	Revision			

**Assessment Rubrics**

<b>Component</b>	<b>Max Marks</b>
ISA 1	5
ISA 2	5
ISA 3	NA
Practical	NA
Project	NA
Semester End Exam	20