

Practical Plan

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| Name of the college: Government College of Arts, Science and Commerce, Sanquelim-Goa | | | | |
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| Name of Faculty: Dr Jyosna Gawas | | Subject: Botany | | |
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| Paper code: BOT 141 (Nursery and Gardening) | | Program: F.Y.B.Sc | | Batch: I |
| | | | | |
| Academic year: 2024 - 2025 | | Semester: II | | Total Practicals/Labs: 30 |
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| Credits: 02 | | | | |
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| 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. | | | | |
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| Expected Course Outcome: After completion of this course student will be able to design and maintain a plant nursery. | | | | |
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| Student Learning Outcome: | | | | |
| 1. Develop skills in designing a plant nursery and different types of gardens, routine operations in gardening and nursery management, cultivation practices for entrepreneurial opportunities. | | | | |
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| Month | Practicals/Labs Scheduled Date | No. of Practical/Labs planned | List of Experiments | Reference books |
| January 2025 | 03/01/2025 | 01 | Preparation of a layout sketch of a nursery. | Textbook of horticulture by K. Manibhushan Rao Horticulture by V. L. Sheela |
| | 10/01/2025 | 01 | Familiarization with various tools, implements and plant supports. | |
| | 17/01/2025 | 01 | Raising of any 2 seedlings in seed trays. | |
| | 24/01/2025 | 01 | ISA; Preparation of compost. | |
| | 31/01/2025 | 01 | Propagation of plants by cutting, layering, runners, suckers, corms | |

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| February 2025 | 07/02/2025 | 01 | Cultivation of any 3 vegetables in the College Botanical Garden (red amaranth, cluster beans, chillies). | 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 |
| | 14/02/2025 | 01 | Preparation/creation of a vertical garden and its after care. | |
| | 21/02/2025 | 01 | Preparation of potting medium and cultivation of different types of potted plants (foliage, succulent, anthurium and orchid). | |
| | 28/02/2025 | 01 | Preparation of a garden in window boxes, troughs and trays (any 2). | |
| March 2025 | 07/03/2025 | 01 | Demonstration of cultivation of house plants and after care of upright and climbing plants. | |
| | 21/03/2025 | 01 | Raising of any 2 seedlings in seed trays, transplanting of seedlings in pots and bags; care and maintenance of plants till flowering/maturity. | |
| | 28/03/2025 | 01 | Raising of any 2 seedlings in seed trays; care and maintenance of plants till flowering/maturity. | |
| April 2025 | 04/04/2025 | 01 | Journal correction and certification | |
| | 11/04/2025 | 01 | Practical Exam | |
| | | 01 | Field trip | |

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Assessment Rubrics

| Component | Max Marks |
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| ISA 1 | 5 |
| ISA 2 | NA |
| ISA 3 | 5 |
| Practical | 40 |
| Project | NA |
| Semester End Exam | NA |