

Nursery Assistant

1. Department: Botany
2. Title: Nursery Assistant
3. Sector: - B.Sc. II (Botany)
4. Year of implementation: 2024-2025

Course Structure

Skill Level	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch
5	15	30	45	02	29

Syllabus

Learning Objectives:

1. To bring the knowledge about Importance of Nursery
2. To inculcate skill of Management of Nursery

Theory Syllabus (15 Hrs, Credit: 01)

Unit I: Nursery operations of Brinjal, Tomato & Chilli

Cultivation practices of selected plants viz. varieties, climate, soil, season, field preparation. Planting, spacing, Irrigation, manuring, plant protection, harvesting and post-harvest handling.

Unit II: Nursery operations of Marigold and Gerbera

Cultivation practices of selected plants viz. varieties, climate, soil, season, field preparation. Planting, spacing, Irrigation, manuring, plant protection, harvesting and post-harvest handling.

Practical Syllabus (30 Hrs, Credit:01)

List of Experiments:

24 hrs.

1. Identification of types of soil & soil pH
2. Identification of fertilizers by physical & chemical methods: urea & Ammonium Sulphate, Green manure & Biofertilizers
3. Study & preparation of media required for Nursery plant
4. Study of seed Dormancy & Viability, Method of propagation of seed
5. Study of methods of seed germination and raising of seedlings in Brinjal, Tomato, Chilli

6. Study of methods of seed germination and raising of seedlings in Marigold and Gerbera
7. Study of nursery diseases and their management in Brinjal, Tomato, Chilli
8. Study of nursery diseases and their management in Marigold and Gerbera

Project/ Field Visits/ Industrial Visit

06 hr

Learning Outcomes:

1. Students will get an opportunity to lead as a successful entrepreneur
2. Students will use their skills to practice modern Nursery Techniques

Recommended Books:

1. B. Bhujbal (Editor) (2017) **Horticultural Nursery Management** under National Agricultural Innovation Project- ICAR New Delhi. Yashwantrao Chavan Maharashtra Open University, Nashik.
2. Deepa H. Dwivedi, Navaldey Bharti. (2019). **A Handbook for Skill Development Nursery Management of Horticultural Crops**. Satish Serial Publishing House. New Delhi.
3. Biswas TD, Mukherjee SK (2017) **Textbook of soil Science**. Tata Mc Graw-Hill Publishing Company Ltd, New Delhi

BOS Sub Committee:

1. Prof. (Dr.) D. D. Namdas – Chairman
2. Mrs. S. A. Shinde-Inamdar – Member

Expert:

1. Mr. B. K. Pawar (Industry)
2. Dr. S. R. Pai (Academics)