

B.Sc. II Year

BBO-S301
SEC-I Nursery and Gardening

Semester – III

MM : 100
Time : 3 hrs

Sessional : 30
ESE : 70
Pass Marks : 40

Learning objective:

- To understand the importance of nursery, gardening nursery planning, and management.
- To acquire an overall knowledge on various types seeds, dormancy and production technologies.
- To become familiar with vegetative propagation techniques and managements.
- To become familiar with general techniques used in nursery, garden designing and managements.

Learning outcomes:

At the end of course student will be able

- The student will be able to understand basics knowledge of nursery and gardening.
- The student will be able to understand the various type's seeds production, dormancy breakdown and production technologies.
- The student will be able to develop able to design and execute their ideas in nursery development and gardening management and development of different types of gardens, landscaping, home gardening and parks.
- The student will be able take the decisions for carrier point of views in research, industries and academia entrepreneurship etc.

Unit 1: Nursery: Planning and Management

(8 Lectures)

Definition, objectives and scope and building up of infrastructure for nursery, planning and seasonal activities
- planting - direct seeding and transplants.

Unit 2: Seed: Dormancy and Production Technology

(12 Lectures)

Structure and types - seed dormancy; causes and methods of breaking dormancy - seed storage: seed banks, factors affecting seed viability, genetic erosion - seed production technology - seed testing and certification.

Unit 3: Vegetative propagation: Techniques and Managements

(12 Lectures)

Air-layering, cutting, selection of cutting, collecting season, treatment of cutting, rooting medium and planting of cuttings - hardening of plants - green house - mist chamber, shed root, shade house and glass house.

Unit 4: Gardening: Design and Managements

(16 Lectures)

Definition, objectives and scope - different types of gardening - landscape and home gardening - parks and its components - plant materials and design - computer applications in landscaping - gardening operations: soil laying, manuring, watering, management of pests and diseases and harvesting

Unit 5: Cultivation

(12 Lectures)

Sowing of seeds, transplanting of seedlings, cultivation of different vegetables: cabbage, brinjal, lady's finger, onion, garlic, tomatoes and carrots, storage and marketing.

14

17.4.21
Ashok
Falgun
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Kesh