

B.Sc. II Year

Semester – III

BBO-S302  
SEC-1 Floriculture

MM : 100  
Time : 3 hrs

Sessional : 30  
ESE : 70  
Pass Marks : 40

Learning objective:

- To understand the importance of Floriculture, and acquire knowledge of importance and scope of floriculture, landscaping gardening.
- To acquire an overall knowledge on Principles of garden designs, and commercial floriculture.
- To acquire an overall knowledge on diseases and pests of ornamental plants.
- To become familiar with general techniques used in Floriculture.

Learning outcomes:

At the end of course student will be able

- The student will be able to understand basics knowledge Floriculture, and understand the sexual and vegetative methods of propagation used in Floriculture.
- The student will be able to develop able to design and execute their ideas in production of lower for commercial, aesthetic and economic purposes.
- The student will be equipped to understand the management and development of different factors affecting flower production; production and packaging.
- The student will be able take the decisions for carrier point of views in research, industries and academia entrepreneurship etc.

**Unit 1: Introduction**

(20 Lectures)

Importance and scope of floriculture and landscape gardening. Nursery management and routine garden operations: sexual and vegetative methods of propagation; soil sterilization; seed sowing; pricking; planting and transplanting; shading; stopping or pinching; defoliation; wintering; mulching; topiary; role of plant growth regulators.

**Unit 2: Ornamental Plants:**

(8 Lecturer)

Flowering annuals; herbaceous perennials; divine vines; shade and ornamental trees; ornamental bulbous and foliage plants; cacti and succulents; palms and cycads; Ferns and Selaginellas; cultivation of plants in pots; indoor gardening; bonsai.

**Unit 3: Principles of Garden Designs:**

(8 Lecturer)

English, Italian, French, Persian, Mughal and Japanese gardens; features of a garden (garden wall, fencing, steps, hedge, edging, lawn, flower beds, shrubbery, borders, water garden; some famous gardens of India.

**Unit 4: Landscaping and Commercial Floriculture:**

(10 Lecturer)

Landscaping places of public importance: landscaping highways and educational institutions. Factors affecting flower production; production and packaging of cut flowers; flower arrangements; methods to prolong vase life; cultivation of important cut flowers (Carnation, Aster, Dahlia, Gerbera, Gladiolous, Marigold, Rose, Lilium, Orchids).

**Unit 5: Diseases and Pests of Ornamental Plants:**

(2 Lecturer)

Diseases and pests of ornamental plants; leaf spot of Chrysanthemum, tulip mosaic.

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