

**Elective Course – IV : HORTICULTURE AND LANDSCAPING**

**Unit-I**

Importance of scope of horticulture - Divisions of horticulture - Climate, soil and nutritional needs - Water irrigation - Plant propagation method - Cutting, layering, grafting, budding. Stock - scion relationship, micropropagation by induction of rooting.

**Unit-II**

Principles and methods of designing outdoor garden - hedges, edges, fences, trees, climbers, rockeries, arches, terrace garden - Lawn making and maintenance - Water garden - cultivation of water plants. Layout for a model college garden.

**Unit-III**

Indoor gardening - Foliage plants, flowering plants, hanging basket, Bonsai plants - Training and pruning.

Floriculture - Cultivation of commercial flower crops - Rose, Jasmine and Chrysanthemum, Flower decoration - Dry and wet decoration.

**Unit-IV**

Classification of vegetables, cultivation of important vegetable - Tomato, potato, onion, cabbage and snake guard. Layout for a model kitchen garden.

**Unit-V**

Fruit crops - Induction of flowering, flower thinning, fruit setting, fruit development. Cultivation of important fruit crops - Mango, Grapes and Guava. Cultivation of tree species - Eucalyptus and Teak.

**References**

- Arora, J. S. (1992). Introductory Ornamental Horticulture. Kalyani Publishers, New Delhi.
- Edmond, J. B. *et al.* (1977). Fundamentals of Horticulture. Tata McGraw Hill Publishers Co. Ltd., New Delhi.
- George Acquaah. (2002). Horticulture Principles and Practices. 2nd ed. Pearson Education, Delhi.
- Kumar, N. (1987). Introduction to Horticulture., Rajalakshmi Publishers, Nagercoil.
- Manibushan Rao, K. (1991). Textbook of Horticulture. Macmillan Publishing Co., New York.
- Rao, K. M. (2000). Text Book of Horticulture. Macmillan India Ltd., New Delhi.

*Note:* No Practical for this paper.