

# Skill Enhancement Course

## Nursery and Gardening (credits 4)

### Unit I

Nursery: definition, objectives and scope and building up of infrastructure for nursery, planning and seasonal activities-Planting, direct seeding and transplants.

### Unit II

Seed: Structure and types- seed dormancy; causes and methods of breaking dormancy. Seed storage, factors affecting seed viability. Sowing/raising of seeds and seedlings- Transplanting of seedlings- study of cultivation of different vegetables: cabbage, brinjal, lady's finger, onion, garlic, tomatoes and carrots. Storage

### Unit III

Vegetative propagation: 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 IV

Gardening: definition, objectives and scope- different types of gardening- landscape and hom gardening. Parks and its components. Gardening operations: Soil laying, manuring, watering, management of pests and diseases.

#### **Suggested readings:**

1. Bose, T.K and Mukherjee, D. 1972. Gardening in India, Oxford and IBH Publishing Co., New Delhi.
2. Sandhu, M.K., 1989. Plant Propagation. Wile Eastern Ltd. Bangalore Madras.
3. Kumar, N. 1997. Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
4. Edmond Musser and Andres, Fundamentals of Horticulture, McGraw Hill Book Co., New Delhi.
5. Agarwal, P.K. 1993. Handbook of Seed Technology, dept. of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.
6. Janick Jules, 1979. Horticultural science. (3<sup>rd</sup> ed.), W.H. Freeman and Co., san Francisco, USA.