HORTICULTURE

PART-I


Origin, history, pomological description, climatic requirements and production techniques of important temperate, sub-tropical and tropical fruit crops. Important pests, diseases and physiological disorders and their management. Integrated management of pests and diseases. Harvesting and harvest maturity indices. Handling and marketing problems of major fruits. Special problems of production.


Economic principles in fruit and vegetable production. Use of planning and budgeting techniques. Efficiency measures of orchard management.


PART-II

Importance, nutritive value and classification of vegetables. Types of vegetable gardening. Principle of vegetables, cultivation including nursery management. Climatic requirement and cultivation of major summer and winter vegetable crops. Off-season vegetable production. Diseases and pests of vegetable crops and measures to control.

Weeds, their characteristics and association with various vegetable crops.

Principles of plant breeding in the improvement of major vegetable crops. Methods of breeding of self, cross-pollinated and vegetatively propagated crops. Seed technology and its importance. Production, processing, testing and marketing of vegetable seeds.

