

**5<sup>th</sup> SEMESTER**  
**HORTICULTURE TECHNOLOGY**  
**SKILL ENHANCEMENT COURSE (SEC)**

**TFP520S      TEMPERATE FRUIT PRODUCTION (TFP) II: CULTURAL OPERATIONS  
IN FRUIT PRODUCTION**

**CREDITS: THEORY: 2, PRACTICAL: 2**  
**MAX MARKS: THEORY: 30, PRACTICAL: 30**  
**MIN MARKS: THEORY: 12, PRACTICAL: 12**

*Objectives: To acquaint the students with the different cultural operations to be followed for successful orchard production*

**THEORY (2 CREDITS)**

**UNIT I**

**Pruning and Training:** Pruning and training techniques, tree health, growth habit, structure, stability and growing environment, light distribution. Reasons for pruning, the timing of pruning, types of material for removal, Pruning tools and equipment.

Harvesting, sorting, packaging, storage and transportation, prevention of diseases or rotting during storage.

**UNIT II**

Undertake basic entrepreneurial activities; Demand and supply of produce in the market, determine the market value of the produce, cost of production, transportation and marketing and include in costing and pricing

Identify target customers, various subsidies/funds offered by the government, regulations related to marketing and sale of the produce, appropriate marketing channels related to the produce considering requirements and constraints, trading channels of produce and their margin of profit.

**PRACTICALS (2 CREDITS):**

- Plant modification through pruning and training of temperate fruit crops.
- Observe and record growing habit and other vegetative characters of temperate fruits
- Observe and identify different systems of training and pruning in fruit crops.
- Monitor plant growth and the crop management program.
- Determine the cost of production, transportation and marketing of different fruit crops.
- Collect information related to various subsidies/funds offered by the government, authorized state units and other financial institutions involved with the promotion of the produce.