

AMH25 PROCESSING OF HORTICULTURAL CROPS

UNIT-1 THEORY

- 1.1 Importance and scope of fruit and vegetable preservation industry in India.
- 1.2 Food pipe line, losses in post-harvest operations and unit operations in food processing.
- 1.3 Principles and methods of preservation of fruits and vegetables.
- 1.4 Preservation by thermal treatments: mild heat, pasteurization and sterilization, canning and bottling of fruits and vegetables.
- 1.5 Preservation by chemical preservatives: Methods for preparation of unfermented beverages viz. juices, RTS, nectar, squashes, syrups, cordials and fermented beverages.
- 1.6 Preservation by sugar: Jam, jelly and marmalade, preserves, candies, crystallized fruits etc.
- 1.7 Preservation with salt, spices, oil and vinegar: pickling, chutneys and tomato products.
- 1.8 Preservation by freezing, drying & dehydration of fruits & vegetables.
- 1.9 Minimal processing of fruits and vegetables, Processing of Plantation crops.
- 1.10 Spoilage in processed foods, quality control of processed products.
- 1.11 Govt. policy on import and export of processed products.
- 1.12 Food laws.
- 1.13 Principles and guidelines for the establishment of processing units.

UNIT-2 PRACTICAL

- 2.1 Instruments and Equipment used in food processing units.
- 2.2 Canning of fruits and vegetables, preparation of juice, squash, RTS, cordial, syrup, jam, jelly, marmalade, candies, preserves, chutneys, sauces, pickles.
- 2.3 Tomato products, dehydration and freezing.
- 2.4 Minimal processing of fruits and vegetables.
- 2.5 Processing of plantation crops.
- 2.6 Visit to processing units.
- 2.7 Quality control of processed products (physico-chemical and sensory analysis).

Reference Books:

1. Kalia, Manoranjan and Sood, Sangita. Food Preservation and Processing, Kalyani Publishers, Ludhiana.
2. Lal, GirdhariSiddappaa, G.S. and Tandon, G.L.Preservation of fruits & vegetables, ICAR, New Delhi.
3. Srivastava, R.P. and Sanjeev Kumar.Fruit & Vegetable Preservation: Principles and Practices, 3rd Edition, International Book Distributing Co., Lucknow.