

Commercial Fruit Production (IHT-206)

DURATION - 3 Months

Module 1: Scope of Fruit Production

Introduction

Scope and Importance of Fruit Cultivation, Industrial and Medicinal Important

Classification of Fruit Crops

Present Scenario of Fruit Industry in India

Module 2: Climate, Soil Condition and Varieties

Soil Health Management

Soil Treatment

Commercial Varieties of Regional, State, National and International Importance

Hybrid Varieties and their Sources

Pest and Disease Resistant Varieties and their Sources of Availability

Module 3: Propagation and Root Stock

Recent Trends in Propagation

Source of Rootstock/Establishment of Mother Block

Module 4: Cultivation Practices

Soil Solarisation

Planting Systems

Preparation of Pits

High Density Planting

Mulches

Intercropping

Module 5: Intercultural Operation

Manuring

Irrigation

Irrigation Methods

Drainage

Use of Plant Growth Regulators

Abiotic Factors Limiting Fruit Production

Weed Management

Training and Pruning (Canopy Management)

Nutrient Management

Module 6: Plant Physiology and Physiological Disorder

Physiology of Flowering, Pollination, Fruit Set and Fruit Development

Flower and Fruit Drop: Causes and Management Practices

Physiological Disorders: Causes and Remedies

Quality Improvement by Management Practices

Module 7: Integrate Pest and Disease Management

Integrated Pest Management

Integrated Disease Management

Module 8: Commercial Cultivation of Mango

Introduction, Composition and Uses
Origin and Distribution
Cultivars
Soil and Climate
Propagation
Cultivation Practices
Flowering, Fruit Set, Fruit Growth and Development
Pests, Diseases and Physiological Disorders
Harvesting and Yield
Packaging and Transport
Ripening and Storage

Module 9: Commercial Cultivation of Citrus

Introduction, Composition and Uses
Origin and Distribution
Cultivars
Soil and Climate
Propagation
Cultivation Practices
Flowering, Fruit Set, Fruit Growth and Development
Pests, Diseases and Physiological Disorders
Harvesting and Yield
Packaging and Transport
Ripening and Storage

Module 10: Commercial Cultivation of Banana

Introduction, Composition and Uses
Origin and Distribution
Cultivars
Soil and Climate
Propagation
Cultivation Practices
Flowering, Fruit Set, Fruit Growth and Development
Pests, Diseases and Physiological Disorders
Harvesting and Yield
Packaging and Transport
Ripening and Storage

Module 11: Commercial Cultivation of Guava

Introduction, Composition and Uses
Origin and Distribution
Cultivars
Soil and Climate
Propagation
Cultivation Practices
Flowering, Fruit Set, Fruit Growth and Development
Pests, Diseases and Physiological Disorders
Harvesting and Yield
Packaging and Transport

Ripening and Storage

Module 12: Post- Harvest Management and Marketing

Maturity Indices

Harvesting and Yield

Time of Harvesting

Harvesting Methods

Pre-Cooling

Washing and Cleaning

Grading

Packing and Transportation:

Packing Material

Packing Material According to Market Need Duration of Transportation

Storage

Value Addition and Processing