

Vegetables – Open Cultivation (IHT-108)

DURATION - 1 MONTH

Introduction: Importance of Vegetables, Nutraceutical Value, Contribution in Indian Economy

Classification of Vegetables: Based on Temperature - Season, Botanical, Parts Used

Quality Seed/Variety

OP and Hybrid Varieties

Seed-germination and Vigour

Treatments

Seed Rate of Various Vegetables

Identification

Important Varieties

Hundred Seed Weight

Determine Seed Quality from Seed Packet

Raising of Healthy Nursery

Advantages of Nursery Raising

Soil Sterilization

Types of Nursery Beds

Sowing and After Care

Plug Nursery Production with Soil Less Media

Nutrition and Pest Management in Nursery

Mulching

Advantages of Using Mulches – Organic/Plastic

Methods of Using Various Mulches

Planting

Transplanting and Direct Seeding

Time of Planting

Planting Distance of Various Vegetables

Irrigation Management

Conventional and Micro-irrigation Systems

Nutrition Management

Soil Analysis

Nutritional Requirement of Various Vegetables

Selection of Fertilizers

Methods of Application

Fertigation

Intercultural Operations

Staking

Muchan Method for Cucurbits Trellis

Weed Control Methods

Fertilizer Applications Methods
Pruning, Training, PGR Application

Harvest and Yield

Maturity Indices
Methods of Harvesting
Picking Various Vegetables
Tools and Equipment Used
Expected Yield of Various Vegetables

Postharvest Management

Sorting
Grading and Washing
Pre-cooling
Packaging and Transport

Storage Facilities

Temperature and Humidity Requirement for Storage of Various Vegetables
Shelf Life
Duration of Storage
ZECC

Marketing of Vegetables

Understanding Marketing Standards
Demand and Supply
Market Options (Local and Distant)