

SPECIAL COURSES

Polyhouse Construction and Maintenance (IHT-501)

DURATION - 5 DAYS

COURSE CONTENT

Introduction

Importance, Scope and Advantages of Polyhouses

Site and Orientation of Polyhouse

Location, Land and Topography

Availability of Water

Orientation and Floor Plan

Types and Designs

Based on Shapes

Utility

Cladding

Climate Control

Selection of a Greenhouse Design for Given Agro-Climatic Conditions

Greenhouse Foundation

Selection of Cladding Material, Shading Cloth, and Nets

Role of Wind Brakes and Design

Identification of Polyhouse Components and Materials

Measurement of Material Properties and Microclimatic Parameters

Climate Control Technologies

Control of Light: Supplemental Lights, Daylight Extension, Phyto Regulation

Temperature: Ventilation, Heating, Cooling

Relative Humidity: Dehumidification, Humidification

Carbon Dioxide Enrichment

Design of Environmental Control Equipment for Polyhouses

Nutrition and Irrigation System

Micro Irrigation and Fertigation

Regular Scouting and Maintenance of Greenhouse Infrastructure

Applications in Operation and Maintenance