

Department of Botany
Certificate Course on Nursery Management

Syllabus

Unit-I: Introduction

Introduction to Nursery Management, Advantages and disadvantages of Nursery Management

Unit-II :Nursery Material and Equipments

Uses of Kudali,Garden fork,Weeding fork,Khurpi,Crow bar,Water cans,Garden rakes.Tying and wrapping material, Baskets and crates,Seedling trays and Pots.

Unit-III: Concept of nursery bed

Preparation of nursery bed, system of crop planting, pot mixture and making.

Unit-IV: Media

Use of growth regulators in propagation, media for propagation of plants in nursery beds.

Unit-V: Methods of vegetative propagation:

Plant Propagation Techniques -Sexual propagation: seeds, sowing methods, and germination.

Asexual propagation: cuttings, budding, grafting, and layering.

Unit VI :Fertilizing Nursery Plants

Plant nutrition and fertilization practices.

Unit VII : Irrigation and Drainage

Irrigation management and watering techniques.

UnitVIII :Disease Identification

Monitoring plant health and identifying common Disease.

Unit-IX: Disease Management

Techniques for pest and disease management in propagation.

Unit-X: Problems of horticulture crops

Problems of horticulture crops, Factors influencing rooting of cutting, layering and grafting.



PRACTICALS

1. uses of Nursery equipments
2. prepare potting media
3. Seed sowing, potting
4. Fertilizing Nursery Plant
5. Plant Propagation Techniques
6. Preparation of different types of cuttings, budding, layering and grafting.
7. Uprooting, digging, labelling and packing of nursery plant.
8. Irrigation management and watering techniques
9. Diseases management

Books and References:

1. Dr. Arun kumar Singh and Abhinav kumar (2020). Propagation and nursery management.
2. R.R.Sharma and Manish Srivastav (2004). Plant propagation and nursery management.
3. B.S. Chundawat (2017). Plant propagation and nursery management.



Subject Expert

Subject Expert

Course Coordinator
COORDINATOR

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