

Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee) Pravara Rural Education Society,s
Arts, Commerce and Science College, Satral,
Tal: Rahuri Dist. Ahmednagar
Department of Botany
 Academic Year 2022-23

Certificate Course Nursery Management Syllabus (2 credits)

Theory (1 Credit)

| Sr. No | Topic | Lectures |
|--------|---|----------|
| 1. | Introduction: <ul style="list-style-type: none"> ➤ Definition, ➤ Need of the course ➤ Benefits of the course ➤ Social aspects ➤ Market aspects ➤ History and Scope of Plant Propagation. | 01 |
| 2. | Nursery Management: <ul style="list-style-type: none"> ➤ Definition and Types of nursery ➤ Management, ➤ Media Tools required for nursery ➤ Disease and pest control. ➤ Basic Requirement for nursery development ➤ Role of Nurseries in Horticulture Development. | 02 |
| 3. | Types of Nurseries : <ul style="list-style-type: none"> ➤ Fruit plant nurseries ➤ Vegetable nurseries ➤ Ornamental plant nurseries ➤ Cacti and succulents nurseries ➤ Medicinal and Aromatic plants nurseries ➤ Forest plant nurseries | 2 |
| 4. | Nursery operations: <ul style="list-style-type: none"> ➤ Equipments and tools in nursery operations ➤ Methods of Propagation of nursery plants: Natural and Artificial propagation ➤ Potting, repotting. Nursery beds preparation ➤ Nursery irrigation system ➤ Methods of application of fertilizers | 2 |

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|----|---|---|
| 5. | Plant Propagation Methods: > Sexual Method: > Definition of seed > Development of fruit and seed > Seed dormancy > merits and demerits | 2 |
| 6. | Asexual Method: > Types of vegetative propagation > Cutting : Types and technique > Layering: Types and technique > Grafting: Types and technique > Budding : Types and technique | 4 |
| 7. | Economics of Nursery Development > Record of plant nursery Management > Field Demonstration/field visit | 2 |


Practical: 15P (1 Cr.)

| Sr. No | Topic | Practical Lectures |
|--------|--|--------------------|
| 1. | Tools required for nursery technique | 1P |
| 2. | Preparation of Nursery beds and sowing of seeds | 3P |
| 3. | Preparation of plant material for potting | 2P |
| 4. | Preparation of potting mixture/filling of pots | 2P |
| 5. | Practicing of propagation methods a) Cutting, b) layering c) Budding d) Grafting | 4P |
| 6. | Raising of Seedlings | 2P |
| 7. | Visit to nearby nursery | 1P |

Course Duration: 2 Months

HOD


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Principal


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