

# **Raje Ramrao Mahavidyalaya Jath**

## **Certificate Course in Gardener cum Nursery Raiser Syllabus**

**Total 40hrs**

**Max Marks:100**

### **Learning Outcomes:**

On Successful completion of this Course students will be able to;

1. Understand the importance of nursery and basic infrastructure to establish it.
2. Explain the basic material, tools and techniques for nursery
3. Demonstrate expertise related to various practices in a nursery
4. Comprehend knowledge and skills to get an employment or to become an entrepreneur in nursery sector.

### **Syllabus**

#### **Unit-1: Introduction to Gardener cum Nursery**

(9 hours)

1. Nursery: Definition, importance.
2. Different types of nursery – on the basis of duration, plants produced, structure used.
3. Basic facilities for a nursery, layout and components of a good nursery.
4. Plant propagation structures in a brief.
5. Bureau of Indian standard's (BIS - 2008) related nursery.

**Unit-2: Necessities for nursery****(9 hours)**

1. Nursery beds – types and precautions to be taken during predation.
2. Growing media, nursery tools and implements and containers for plant nursery, in brief .
3. Seeds and other vegetative material used to raise nursery in brief.
4. Outlines of vegetative propagation techniques to produce planting material.
5. Sowing methods of seeds and planting material

**Unit-3: Management of Nursery****(9 hours)**

1. Seasonal activities and routine operations in a nursery.
2. Nursery management- Watering, weeding and nutrients, pests and diseases.
3. Common possible errors in nursery activities.
4. Economies of nursery development, pricing and record maintenance.
5. Online nursery information and sales system.

**Suggested Co- curricular activities****(13 hours)**

1. Demonstration of nursery bed making.
2. Hands on training on sowing methods of seeds and other material.
3. Watching videos on routine practices in nurseries.
4. Visit to an agriculture/horticulture/forest nursery.
5. Case study on establishment and success of a nursery.
6. Invited lecture cum demonstration by local expert.

**Evaluation System:**

All the students will be continuously evaluated by,

- a. Attendance 10 M
- b. Assignments 10 M

c. Theory examination 80M

**Nature of theory question paper:-**

Q.1. Multiple choice questions and compulsory, containing 25 questions. (50 marks)

Q.2. Answer any three questions each answer carries 10 marks.

**Suggested text books/reference books :**

1. Ratha Krishanan ,M., et.al(2014) Plant nursery management : Principles and practices ,Central Arid Zone Research Institute(ICAR), Jodhpur, Rajasthan.
2. Kumar, N.,(1997) Introduction to Horticulture, Rajalakshmi Publications ,Nagercoil .
3. Mishra ,K.,N.K. Mishra and Satish Chand (1994) Plant Propagation ,John Wiley & Sons ,New Jersey.
4. Nursery and Gardening Management ,Dr.K.Dhumal ,Dr.M.C. Pagariya, Dr.M.S.Shitole ,Dr.P.B.Taware.