

W.e.f 20AH Batch

### **PRACTICAL SYLLABUS – IIIA**

**OBJECTIVE:** To enable the students to

- To enable the students to learn the techniques of Nursery and its management
- Acquire the techniques, managerial methods and weed & pest management in Nursery

**COURSE OUTCOMES: Students will**

- **CO1:** Be able to list out different types of nurseries and beds
- **CO2:** Identify the nursery tools, implements and containers.
- **CO3:** Develop skill on potting media preparation and plant production
- **CO4:** Learn the technique of establishing cutting, layering, grafting etc.

**PRACTICAL COURSE:**

1. Demonstration of different types of nurseries
2. Handling of nursery tools, equipment and types of containers
3. Laying of nursery bed with soil and compost
4. Seed collection, treatment and rising of seedlings on nurserybed
5. Handling of grafting and layering techniques in the nursery
6. Watering, weeding and management of nursery
7. Maintaining of the seedlings / cuttings in the nursery

**REFERENCES**

1. Ratha Krishnan, M., *et al.* (2014) Plant Nursery
2. Management: Principles and Practices, Central Arid Zone Research Institute– ICMR, Jodhpur, Rajasthan.
3. Vikas Kumar, Anjali Tiwari, Practical manual of Nursery management, Agri – biotech Press, New Delhi.
4. Tarai Ranjan Kumar, (2020) Plant propagation and nursery management, New India Publishers.
5. P.K.Ray, (2020) Essentials of plant nursery management.
6. P.K.Ray, (2012) How to start and operate a Plant Nursery.

## **I. Co-curricular activities:**

**a) Mandatory:** (Training of students by teacher on field related skills:15hrs)

- 1. For teachers:** Training of students by teacher in laboratory and field for a total of 15hrs on nursery types and infrastructure of a nursery. Pre sowing treatment and seed sowing methods. Plucking, transplantation, layering and grafting methods
- 2. For students;** Visit to local nursery farm, observing the crop growth raised in nurseries. Submission of field work report of 10 pages in the prescribed format.
- 3. Maximum marks for field work report: 05**
- 4. Suggested format for field work report:** Title page, student details, content page, introduction, work done, findings, conclusion and acknowledgements.
- 5. Unit test(IE)**

**b) Suggested co-curricular activities:**

- 1. Visit to local nurseries**
- 2. Learning techniques of basic tools and instruments handling related to fieldwork**
- 3. Sowing of seeds by adopting different methods, grafting and layering techniques**
- 4. Training of students by related subject experts**
- 5. Attending special lectures, group discussions and seminars on related topics**
- 6. Preparation of videos on nursery media preparation and application**

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