ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

I SEMESTER **SKILL DEVELOPMENT COURSE** TIME:2HRS/WEEK

PN 1001 (2) **PLANT NURSERY** MAX.MARKS:50

(w.e.f: 2020-2021-‘20AH’) **SYLLABUS**

## LEARNING OUTCOMES:

On successful completion of this course students will be able to:

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

## SYLLABUS:

**UNIT-1: INTRODUCTION TO PLANT NURSERY:**

1. Plant nursery: Definition, importance.
2. Different types of nurseries –on the basis of duration, plants produced, structureused.
3. Basic facilities for a nursery; layout and components of a goodnursery.
4. Plant propagation structures in brief.
5. Bureau of Indian Standards (BIS-2008) related tonursery.

## UNIT- 2: NECESSITIES FOR NURSERY:

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

## UNIT- 3: MANAGEMENTOFNURSERY:

1. Seasonal activities and routine operations in a nursery.
2. Nursery management – watering, weeding and nutrients; pests anddiseases.
3. Common possible errors in nurseryactivities.
4. Economics of nursery development, pricing and recordmaintenance.
5. Online nursery information and salessystems.

## SUGGESTED CO-CURRICULAR ACTIVITIES :

1. Assignments/Group discussion/Quiz/ModelExam.
2. Demonstration of nursery bedmaking.
3. Demonstration ofpreparation of media fornursery.
4. Hands on training on vegetative propagationtechniques.
5. Hands on training on sowing methods of seeds and othermaterial.
6. Invited lecture cum demonstration by localexpert**.**
7. Watching videos on routine practices in plantnurseries.
8. Visit to an agriculture/horticulture /forestnursery.
9. Case study on establishment and success of a plantnursery.

## SUGGESTED TEXT BOOKS / REFERENCE BOOKS:

1. Ratha Krishnan, M., et.al. (2014) Plant nursery management : Principles and practices, Central Arid Zone Research Institute (ICAR), Jodhpur, Rjasthan
2. Kumar, N., (1997) Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
3. Kumar Mishra, K., N.K. Mishra and Satish Chand (1994) Plant Propagation, John Wiley & Sons, New Jersey.

\*\* \*\* \*\*