



P.B. SIDDHARTHA COLLEGE OF ARTS & SCIENCE

Siddhartha Nagar, Vijayawada – 520 010

Autonomous - ISO 9001 – 2015 Certified

Title of the Paper: Plant Nursery Management

Offered to: BSc Botany Honors

COURSE CODE:

Course Type: VAC

Year of Introduction:

Year of Revision:

Percentage of Revision: Semester: I

Credits: 02

Hours Taught: 30 hrs. per Semester

Max. Time: 3 Hours

Course Prerequisites: Knowledge of nursery management studied in intermediate.

Course Description: This course will provide one with a basic and comprehensive understanding of nursery management. Enable the student with depth of topics and helps them to gain an appreciation in preparation of nursery beds. On the other hand, importance of understanding maintenance of nursery, handling of nursery tools provide an extensive knowledge to the student.

Course Objectives:

1. To study importance of nursery.
2. To study the basic requirements for nursery.
3. To study the management of nursery.
4. To study seasonal activities and routine operations in a nursery.
5. To study vegetative propagation techniques.

Course Outcomes: At the end of this course, students should be able to:

CO1: Understand the importance of plant nursery, basic infrastructure to establish it.

CO2: Explain the basic material, tools and techniques required for nursery.

CO3: Demonstrate expertise related to various practices in a nursery

CO4: Comprehend knowledge and skills to get an employment or to become an entrepreneur in plant nursery sector.

Syllabus

Course Details

Unit	Learning Units	Lecture Hours
I	Introduction to Plant Nursery 1. Plant nursery: definition, importance. 2. Different types of nurseries on the basis of duration, plant parts used for propagation. 3. Basic facilities for a nursery: layout and components of a good nursery 4. Plant propagation structures in brief 5. Bureau of Indian standards (BIS-2008) related to nursery.	6
II	Basic Requirements for Nursery	6

	1. Nursery beds – types and precautions to be taken during preparation. 2. Growing media, nursery tools and implements, containers for plant nursery in brief. 4. Outlines of vegetative propagation techniques to produce planting material. 5. Sowing methods of seeds and planting material.	
III	Management of Nursery 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. Economics of nursery development, pricing and record maintenance. 5. Online nursery information and sales systems.	6
	Practical Syllabus 1. Demonstration of Nursery bed making of propagation media. 2. Demonstration of preparation of media for Nursery. 3. Hands on training on vegetative propagation techniques. 4. Hands on training on showing methods of seeds and other material. 5. Visit to an agriculture/horticulture/forest nursery. 6. Case study on establishment and success of a plant nursery	12

Recommended Reference book:

1. Ratha Krishnan, 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. Kumar Mishra., N.K. Mishra and Satish Chand (1994) Plant Propagation, John Wiley & Sons. New Jersey

Course Delivery method: Face-to-face / Blended.

Course has focus on: Foundation/Skill Development

Websites of Interest:

<https://youtu.be/Y6BgWWPFGss>

<https://www.youtube.com/watch?v=9Dc-NYGz-9w>

Model Question Paper Structure for SEE

Time: 3Hrs

Max.Marks: 40M

- | | |
|---|------------|
| 1. Describe experiment “A” ----- | 8M |
| 2. Identify the given propagation technique “B” and write notes----- | 8M |
| 3. Identify the given propagation technique ”C” and write notes ----- | 10M |

4. Identify the following Vegetative Propagule "D"----- **3M**

5. Identify the given garden tools "E" and "F"----- **2X2=4M**

E:

F:

6. Field note Book----- **2M**