

SEVADAL MAHILA MAHAVIDYALAYA

Place For Higher Learning And Research (Research Academy) Sakkardara Square, Umrer Road, Nagpur-440024

E-Mail: sevamahilamv@gmail.com

Website: www.sevadalmahilamahavidyalaya.ac.in

Certificate Course in Plant Nursery



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Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

Department of Botany

PROGRAME OUTCOMES:

The Plant Nursery is a skill development based course specially designed for students, looking to start their own business in floriculture and horticulture. After successfully completion of this course students are able to.....

- Familiarise the student with the principles of propagating plants by cuttings
- To develop an understanding of how to propagate plants from stem cuttings
- To develop an understanding of how to propagate plants from non-stem cuttings
- To develop an understanding of the materials and equipment used for propagating plants from stems
- To understand the principles of growing media in relation to cutting propagation
- To understand how and why cuttings form roots. To learn how to manipulate the formation of roots on cuttings
- To understand the principles for establishing successful plant propagation areas
- To understand the principles of nursery crop scheduling.



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Certificate course in Plant Nursery

A Plant **Nursery** is a place where plants are propagated and grown to a desired size. Mostly the plants concerned are for gardening, forestry, or conservation biology, rather than agriculture. They include retail nurseries, which sell to the general public; wholesale nurseries, which sell only to businesses such as other nurseries and commercial gardeners and private nurseries, which supply the needs of institutions or private estates.

The Plant Nursery Course is designed for students to start their own business in floriculture and horticulture. With a focus on creating a profitable plant nursery, this course will help to students how to develop a solid business plan, choose the right plants to cultivate, and market their products effectively.

In India, the plant nursery business has vast potential, and with the right approach, students can earn money per month and they become independable. The course covers all the essential aspects of starting and managing a successful plant nursery, including market research, financial planning, and selecting appropriate plant species.

AIMS AND OBJECTIVES:

- Explain plant propagation techniques and efficiency and quality control measures for the plant nursery.
- Explain identifying and naming plants through International Code of Botanical Nomenclature.
- Describe pros and cons of different nursery structures and understand effective management techniques.

- Describe different types of potting mix, their uses and pros and cons.
- Discuss different sources, maintenance of genetic identity, hybridisation techniques, storage and germination; of seeds.
- Explain different means of propagating cuttings.
- Explain alternative methods of propagation and their appropriate uses.
- Discuss the importance of major and minor elements to plant health and the effect of their deficiencies upon plant nutrition.
- Explain the effects of pests and diseases on the livelihood of the nursery and the importance of good hygiene standards in their control.
- Explain different methods of controlling plant growth.



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Date: 28-09-2023

NOTICE

All the members of the Department of Botany are hereby informed that the meeting regarding the certificate course in "Plant Nursery" has been schduled on 3 Oct 2023 at 11:00 Am at the Hon'ble Principal Chamber.

Hon'ble Principal Sir will chair the meeting in presence of Dr. A.P. Lambat, NAAC coordinator.

Agenda of the meeting:

- 1) To commence certificate course in "Plant Nursery"
- 2) To frame the syllabus of the course
- 3) Any other Matter with the permission of the Chair

Dr. Indralata P. Bhagat

Course co-ordinator

Plant Nursery

Copy to:

Dr. Ashish P. Lambat, NAAC Co-ordinator

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Sevadal Mahila Mahavidyalaya
Nagpur.

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Minutes of the Meeting dated 03.10.2023 Certificate Course in "Plant Nursery"

The meeting regarding the Certificate Course in Plant Nursery 'was held on 3rd Oct, 2023 at 11.00 am in the Hon'ble Principal's Chamber. Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To commence the Certificate Course in 'Plant Nursery'.
- 2) To frame the syllabus of the course.
- 3) Any other matter with the permission of the Chair.

Following Members were present.

Prof. Pravin Charde, Principal
 Dr. Ashish P. Lambat,
 Professor V. S. Dongre
 Dr. Indralata P.Bhagat
 Chairman
 IQAC Coordinator
 Member
 Course Coordinator

Dr. I. P. Bhagat, Course Coordinator acted as secretary in the meeting. The Coordinator welcomed the Chairperson, Hon'ble Principal and other members and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the matter.

1) Item No.1: To commence the Certificate Course in 'Plant Nursery'.

Resolution: Unanimously it was decided to commence the Certificate Course in "**Plant Nursery**' from the session 2023-.

2) Item No.2: To frame the syllabus of the course.

Resolution: Hon'ble Principal expressed his views regarding the framing of course syllabus, Dr. I. P. Bhagat and Prof. V. S. Dongre were asked to prepare syllabus of the Certificate Course in 'Plant Nursery'.

3) Item No.3: Any other matter with the permission of Chair.

Resolution: As there was no other matter to discuss, the Coordinator sum up

the meeting by expressing thanks for everyone's gracious

attendance,

Name

1. Hon'ble Prof. Pravin Charde

2. Dr. Ashish P. Lambat

3. Professor V. S. Dongre

4. Dr. Indralata P.Bhagat

Signature

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Date: 13-10-2023

NOTICE

All the members of the Department of Botany are hereby informed that the meeting regarding the certificate course in "Plant Nursery" has been schduled on 18 Oct 2023 at 11:00 am at the Hon'ble Principal Chamber.

Hon'ble Principal Sir will chair the meeting in presence of Dr. A.P. Lambat, NAAC coordinator.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the progress of framing the syllabus of Plant nursery
- 3) Any other Matter with the permission of the Chair

Dr. Indralata P. BhagatCourse Co-ordinator
Plant Nursery

Copy to:

Dr. Ashish P. Lambat, NAAC Co-ordinator

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Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

Mounder

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Minutes of the Meeting dated 18.10.2023 Certificate Course in "Plant Nursery"

The meeting regarding the Certificate Course in Plant Nursery 'was held on 18th Oct, 2023 at 11.00 am in the Hon'ble Principal's Chamber. Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the progress of framing the syllabus of Plant nursery
- 3) Any other Matter with the permission of the Chair

Following Members were present.

Prof. Pravin Charde, Principal
 Dr. Ashish P. Lambat,
 Professor V. S. Dongre
 Dr. Indralata P.Bhagat
 Chairman
 IQAC Coordinator
 Member
 Course Coordinator

Dr. I. P. Bhagat, Course Coordinator acted as secretary in the meeting. The Coordinator welcomed the Chairperson, Hon'ble Principal and other members and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the matter.

1) Item No.1: To confirm the minutes of the last meeting.

Resolution: The minutes of the last meeting held on 03-10-2023 were read by the course coordinator and subsequently the minutes were unanimously approved.

2) Item No.2: To review the progress of framing the syllabus of Plant nursery

Resolution: Course Coordinator tabled the newly framed syllabus of

Certificate Course in Plant Nursery in the meeting after through

Namble

Off. Principal radal Mahila Mahavidyalaya Nagpur.

discussion it was approved unanimously

3) Item No.3: Any other matter with the permission of Chair.

Resolution: Hon'ble Principal directed the Coordinator to start admissions for the students after Diwali Vacation

As there was no other matter to discuss, the meeting was concluded with vote of thanks by the Coordinator of the course

Name

- 1. Hon'ble Prof. Pravin Charde
- 2. Dr. Ashish P. Lambat
- 3. Professor V. S. Dongre
- 4. Dr. Indralata P.Bhagat

Signature

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SYLLABUS

Certificate course in Plant Nursery

Name of certificate Course: Plant Nursery

Objectives:

- 1.To learn plant propagation method and management practices for wholesale container and field production nurseries.
- 2. Develop skills necessary to manage a wholesale nursery.
- 3. To grow plant in open environment, maintain a good quality of plants.

Course Feature:

- · Weekly three theory classes and two lab activity.
- A field trip to companies in the nursery or visit to local plant nursery.
- One paper each of theory and practical.
- Total Marks: 100 (Theory: 60M, Practical: 20 M, Internal Assesment: 20M)

Syllabus: Theory

UNIT - I

Introduction to the nursery industry, nursery techniques, Importance, Types of nurseries, Nursery standards. Establishment of Nursery: Selection of site and location, Design, Irrigation and Drainage management. Propagation: Sexual, Asexual and tissue culture, role of plant hormones and disinfectants.

Seed dormancy (scarification & stratification) internal and external factors.

UNIT-II

Soil and soil factors (pH, Nutrition). Growth media and potting mixers. Transplanting, Potting, pruning and in ground production. Selection and management of nursery stock, Criteria for selection, propagation material, its inspection, labelling and storage.

UNIT-III

Plant breeding: Genetic improvement of plants, Mendel's principles, Plant reproduction and its phases, Genetic variations, sterility, hybrid crosses, Quantitative traits, Plant breeding programmes, Hybrid seed production, breeder's rights and trademarks.

UNIT-IV

Pest and disease management – Cultural, physical, chemical and biological controls. Integrated pest management. Weed control methods.

Glasshouses, shade houses and other nursery structures, Management and marketing-packaging, retail and customer relations.

Practicals:

- 1. Designing nursery layout.
- 2. Media for propagation of plants in nursery beds and pot.
- 3. Preparation of nursery beds and sowing of seeds.
- 4. Raising of rootstock.
- 5. Seed treatments for breaking dormancy and inducing vigorous seedling growth.
- 6. Preparation of plant material for potting.
- 7. Hardening plants in the nursery.
- 8. Practicing different types of cuttings, layering, graftings and buddings.
- 9. Maintenance of nursery records.
- 10. Use of different types of nursery tools and implements for general nursery and virus tested plant material in the nursery.

Dr. Indralata P. Bhagat
Course Co-ordinator
Plant Nursery

Off. Principal Sevadal Mahila Mahavidyalaya Nagpur.

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Date: 20-10-2023

NOTICE

All the students are hereby informed that the Certificate Course in "Plant Nursery" run by Department of Botany is designed to develop skills necessary to manage a plant propagation and maintain plant nursery. Interested students should contact following teachers for admission before 30 October 2023.

- 1.. Professor V. S. Dongre, HOD Botany
- 2. Dr. Indralata P.Bhagat

Prof. Pravin Charde
Principal
Sevadal Mahila Mv. Nagpur.



Off, Principal Sevadal Mahila Mahavidyalaya Nagpur,

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Place For Higher Learning And Research (Research Academy) Sakkardara Square, Umrer Road, Nagpur-440024

Certificate Course in **Plant Nursery** Academic Session: 2023-24

List of students registered in certificate course of Plant Nursery:

S. No.	Name of Students
1	Aakanksha S. Gadekar
2	Aakanksha S. Gathibande
3	Alshifa J. Ali
4	Anjali L. Mahto
5	Anushka T. Khandekar
6	Chandni R. Raghute
7	Ekta R. Kalambe
8	Fouziya S. Ishaque
9	Himani J. Waghmare
10	Komal H. Bhonde
11	Muskan V. Singh
12	Prachi W. Kumbhare
13	Pragati G. Sontakke
14	Pranali M. Wadive
15	Prarthana Vyawahare
16	Sakshi S. Nannaware
17	Sakshi S. Bipte
18	Samruddhi M. Ramtake
19	Sejal R. Thawkar
20	Shafiyanaaz A. M. Khalid
21	Shiba Anjum
22	Shweta C. Nandurkar
23	Taiba Mohammed A. Bhimani
24	Tanzeela Jabeen Khan
25	Triveni Moon
26	Urvashi M. Shende
27	Vaidavi V. Raut
28	Vaishnavi P. Thakre
29	Yogini L. Ingale
30	Yukta P. Gijre

(Dr. I. P. Bhagat)
Course Co-Ordinator



Sevadal Mahila Mahavidyalaya Nagpur, 436

Prof. Pravin Charde

Principal Sevadal Mahila Mv. Nagpur.

NAAC RE-ACCREDITED WITH A' GRADE
SEVADAL MAHILA MAHAVIDYALAYA & RESEARCH ACADEMY

Attendance

plant Theory Month of Total Lectures/ Practical engaged

J.	& RESEARCH ACADEMY	Name of		The	by classes.	Practical
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-(1)	Aglighksha S. Gadekar		APPPAPP	PAPIPPP		1
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	Alshifa J. Ali		PPAPPP	APPPAPP	APPPPPPPPAF	,
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5	Anushaker T. Khandekar		AIPPPPP	APPOAPP	APPPPPPPA	P -
6-	Chandri R- Raghute		PAPPAP	9999999	PPPPAPPPA	P
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-8-	Pouziya S. Ishque.		PPPPAP	PPPOCPP	PPAPPPAPPP	A
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10.	Komal H. Brande	PPPPPA	PPPPPP	9 9 9 0 P P P	PPPPPPPPP	P
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-19	sejal R. Thouseur	PPPPPP		PAPPPPP	PPPPPPPPP	ρ.
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22	Shweta C Nandustas	PPPPPP	APPPAPF	PPAPAPP	APPPAPPPAE	PP
23	Taile Mohammeel A. Bhir		POPRPPI	PPPPAPP		66.
24	Tanzeela Japeen Khan	FPPPP	APAPAP	PPPAPPP	APAPPPPAP	PA
25	Triveni Moon.	00000	PPPPPP	APPPPAPP	PPPAPPAP	PP
26	Urvashi M. Shende	PPPAP	PPPPP	BPPPPPPP	·PAPPPAPP	46
27	Voidavi V. Rout	PPPPP	PRPPP	PPAPPPPP	PPPPPAPPP	PA
28.	Vaishnavi P. Thakre	PPPPPP	APPPAP	8 9 9 9 P P P P P P P P P P P P P P P P	APPPPPPPP	PP :
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SEVADAL SHIKSHAN SANSTH

& RESEARCH ACADEMY

Sakkardara Square, Umrer Ro

Roll No.	NAME
	Agliginkshog S. Gadeken Agkankshog S. Gadeken Alshife J. Ali Anjali L. Mahto Anishkai T. Khandeka Chandni R. Raghute Ekter R. Kelambe Fouziya S. Ishque Himani J. Wagh mane Komal H. Brande Muskain Y. Singh Pragati G. Sontakke Pranali M. Kumphan Pragati G. Sontakke Pranali M. Wadive Pranali M. Wadive Pranali M. Wadive Pranali M. Wadive Pranali S. Klannawa Sakshi S. Klannawa Sakshi S. Bipte Samzuddhi M. Ramter
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Attendance

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Off. Principal Sevadal Mahila Mahavidyalaya Nagpur.



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Date: 15-03-2024

NOTICE

All the students of Certificate Course in "Plant Nursery" are hereby informed that the practical and theory examination will be held on 10-04-2024 at 10:30 am and 15-04-2024 at 11:00 am respectively in the Botany laboratory. Students are directed to remain present.

(**Dr. I. P. Bhagat**)
Course Co-Ordinator

Moundy

Prof. (Mrs.) N. S. Dhoble
Off. Principal
Sevadal Mahila Mv. Nagpur

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Certificate Course in Plant Nursery Practical Examination Session: 2023-24

Time: Four Hours		Į.	Max. Ma	rks: 20
Q.1: To Prepare Media for propagation of Q.2: To Designing the nursery layout [B]. Q.3: To find out physical properties of giv Q.4: To Prepare the plant material for pot	ven soil [C].			03 03 03 03
Q.5: Spotting				03
[E] [F] [G]				
Q.6: Viva-voce.				02
Q.7: Practical record.				03



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Certificate Course in Plant Nursery Theory Examination Session: 2023-24

Max. Marks: 60. Time: 3 hours] N.B. 1. All questions are compulsory. 2. Draw diagrams wherever necessary. 3x10 O.1. Write on any Three: a) Importance, objective and techniques of Nursery b) Physical and Chemical properties of soil. c) Methods of vegetative propagation. d) Pest and disease control method of Nursery plants. 5x3 Q.2. Write short notes on: a) Nursery Layouts. b) Layering. c) Nursery managements. d) Transplanting and Potting of plants. e) Grafting. 4x2.5 Q.3. Write down short notes on: a) Weed control method b) Packaging of plant c) Media for propagation d) Factors affecting plant growth Q.4 Write in two or three lines on each (Diagrams are not necessary). Any five. 1x5 a) Irrigation

- b) Disinfectants
- c) Pruning
- d) Cutting
- e) Scion
- f) Biological pest control



Place For Higher Learning And Research (Research Academy) Sakkardara Square, Umrer Road, Nagpur-440024

Certificate Course in Plant Nursery

Session: 2023-24

Mark sheet of students [Assignments, Practical & Theory examination]:

S.	Name of Students	Assignments	Practical	Theory	Total (100	Grade	
No.		(20 Marks)	(20 Marks)	(60 Marks)	Marks)	2	
1	Aakanksha S. Gadekar	16	18	38	72	B+	
2	Aakanksha S. Gathibande	17	18	39	74	B+	
3	Alshifa J. Ali	19	20	42	81	Α	
4	Anjali L. Mahto	18	20	43	81	Α	
5	Anushka T. Khandekar	16	18	36	70	B+	
6	Chandni R. Raghute	16	18	39	73	B+	
7	Ekta R. Kalambe	15	17	39	71	B+	
8	Fouziya S. Ishaque	17	19	39	75	B+	
9	Himani J. Waghmare	16	19	40	75	B+	
10	Komal H. Bhonde	17	19	38	74	B+	
11	Muskan V. Singh	16	19	39	74	B+	
12	Prachi W. Kumbhare	19	20	45	84	Α	
13	Pragati G. Sontakke	16	18	39	73	B+	
14	Pranali M. Wadive	16	17	38	71	Α	
15	Prarthana Vyawahare	15	17	38	70	Α	
16	Sakshi S. Nannaware	16	18	37	71	Α	
17	Sakshi S. Bipte	16	19	39	74	Α	
18	Samruddhi M. Ramtake	16	19	36	71	B+	
19	Sejal R. Thawkar	19	20	43	82	Α	
20	Shafiyanaaz A. M. Khalid	19	20	42	81	Α	
21	Saniya K. Rashid	19	20	42	81	Α	
22	Shweta C. Nandurkar	18	19	40	77	B+	
23	Taiba Mohammed A. Bhimani	18	19	40	77	B+	
24	Tanzeela Jabeen Khan	18	19	40	77	B+	
25	Triveni Moon	15	18	38	71	B+	
26	Urvashi M. Shende	15	18	39	72	B+	
27	Vaidavi V. Raut	17	18	40	75	B+	
28	Vaishnavi P. Thakre	19	20	43	82	Α	
29	Yogini L. Ingale	16	19	37	72	B+	
30	Yukta P. Gijre	16	17	38	71	B+	

Course Co-Ordinator

(Dr. I. P. Bhagat)



Mamale

Place For Higher Learning And Research (Research Academy) Sakkardara Square, Umrer Road, Nagpur-440024 E-Mail: sevamahilamv@gmail.com

Date: 21-04-2024

NOTICE

All the members of the Department of Botany are hereby informed that the meeting regarding the certificate course in "Plant Nursery" has been scheduled on 24th April 2024 at 11:00 am at the Hon'ble Principal Chamber.

Hon'ble Principal madam will chair the meeting in presence of Dr. A.P. Lambat, NAAC coordinator.

Agenda of the meeting:

- 4) To confirm the minutes of the last meeting.
- 5) To review the progress of the course "Plant nursery"
- 6) Any other Matter with the permission of the Chair

Dr. Indralata P. BhagatCourse Co-ordinator
Plant Nursery

Copy to:

Dr. Ashish P. Lambat, NAAC Co-ordinator

Place For Higher Learning And Research (Research Academy) Sakkardara Square, Umrer Road, Nagpur-440024 E-Mail: sevamahilamv@gmail.com

Minutes of the Meeting dated 24.04.2024 Certificate Course in "Plant Nursery"

The meeting regarding the Certificate Course in 'Plant Nursery' was held on 24th April, 2024 at 11.00 am in the Hon'ble Principal's Chamber. Hon'ble Principal Madam presided over the meeting.

Agenda of the meeting:

- 4) To confirm the minutes of the last meeting.
- 5) To review the progress of the course "Plant nursery"
- 6) Any other Matter with the permission of the Chair

Following Members were present.

Prof. (Mrs.) N. S. Dhoble, Principal Chairman
 Dr. Ashish P. Lambat, IQAC Coordinator

3) Professor V. S. Dongre Member

4) Dr. Indralata P. Bhagat Course Coordinator

Dr. I. P. Bhagat, Course Coordinator acted as secretary in the meeting. The Coordinator welcomed the Chairperson, Hon'ble Principal and other members and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the matter.

1) Item No.1: To confirm the minutes of the last meeting.

Resolution: The minutes of the last meeting held on 24-04-2024 were read by the course coordinator and subsequently the minutes were unanimously approved.

2) Item No.2: To review the progress of the course "Plant nursery"

Resolution: Course Coordinator presented exam result of the

Certificate Course in Plant Nursery in the meeting it was

approved unanimously

3) Item No.3: Any other matter with the permission of Chair.

Resolution: Hon'ble Principal instructed to distribute certificate to the students on the accomplishment of certificate course.

Name

Signature

1. Hon'ble Prof. (Mrs.) N. S. Dhoble

2. Dr. Ashish P. Lambat

3. Professor V. S. Dongre

4. Dr. Indralata P.Bhagat

Mangal

