



PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA
KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405
Principal Prof. (Dr.) M. K. Patil M.Sc., M. Phil., Ph.D. Mob.9421185277
Phone-02341-295220 Email: kmpvp@rediffmail.com Website: www.pvpkm.ac.in
Jr. College Index No. J 22.04.002

Criterion-VII: Institutional Values & Best Practices


Indicator 7.2 Best Practices

Career Oriented Courses

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-PRINCIPAL
Padmabhushan Vasanttraodada Patil
Mahavidyalaya, K. Mahankal, Dist. Sangli

Shikshan Prasarak Sanstha's
Padmabhushan Vasantodada Patil Mahavidyalaya



Kavathe Mahankal, Sangli
Affiliated to Shivaji University, Kolhapur

*A Career Oriented Course
in Nursery Management*

Prepared by

Department of Botany


Padmabhushan Vasantodada Patil Mahavidyalaya

Kavathe Mahankal 416405

DEPARTMENT OF BOTANY

Report on Career Oriented Course in "Nursery Management"

Title	Career Oriented Course in "Nursery Management"
Duration	1 st August 2023 to 21 st October 2023
Organizer	Department of Botany, P.V.P. Mahavidyalaya Kavathe Mahankal
Funding	--
BOS / Faculty	Asso. Prof. T. G. Patil Asso. Prof. Dr. B. T. Jadhav Mr. S. B. Patil Mr. S. M. Sabale
Coordinator	Asso. Prof. Dr. B. T. Jadhav
Background	A nursery is a place where plants are propagated and grown to a desired size. In a word, a nursery is a centre of seedling production where seedlings are produced and taken care of until transplantation in the main field. The nursery management course provide an business opportunity for students.
Objective	<ul style="list-style-type: none">❖ The main objective of the nursery is to grow plants in an open environment.❖ To maintain a good quality of plants and protect the plants from pests and diseases.❖ It was the responsibility of the commercial nursery growers to develop good quality of plants for their customers.
Outcomes	<ul style="list-style-type: none">❖ To gain some basic knowledge different plant species and how the seedlings are grown.❖ To know about the different horticultural techniques, plant propagation techniques.❖ To know about selling and packing of plantlets.❖ To aware about different problems when creating a good nursery.
Conclusion	Students got sufficient knowledge about Nursery. Course creates a skill of plant propagation, selling of plantlets, packing of plantlets. Thus this course is helpful to students for carrier aspects.


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Mahavidyalaya, K. Mahankal, Dist. Sangli

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.


DEPARTMENT OF BOTANY

Report on Career Oriented Course in "Nursery Management"

Brief Summary

Sr. No.	Organizing department	Department of Botany			
1	Type of Activity	Career Oriented Course in "Nursery Management"			
2	Duration of Activity	1 st August 2023 to 21 st October 2023			
3	Venue	Botany Lab, Department of Botany			
4	Participation				
	Students	Male	Female	Total	
	B. Sc. III & B. Sc. II	11	24	35	
5	Result	A-Grade	B-Grade	C-Grade	Total
	B. Sc. III & B. Sc. II	35	0	0	35


Coordinator


-PRINCIPAL
Padmabhushan Vasantodada Patil
Mahavidyalaya, K. Mahankal, Dist. Sangli


HEAD
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

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Department of Botany

Head of Department,
Department of Botany
P. V. P. Mahavidyalaya,
KavatheMahankal, Dist. Sangli,
Maharashtra 416405
Date: 20/07/2023

To,
The Principal,
PadmabhushanVasatraodada Patil Mahavidyalaya,
KavatheMahankal, Dist. Sangli,
Maharashtra 416405

Subject: Seeking a permission to start the career-oriented course in
"Nursery Management".

Respected sir,


As per your guidelines we are going to start a career oriented course in "Nursery Management" in Department of Botany for our college students. This course will be of 43 hours and will be completed during August 2023 to October 2023. The course will be definitely beneficiary for students.

I request you to give permission to start the above course in the Department.

Thanking you.

Permission granted.

Mundal
20/7/23


Yours faithfully,
HEAD
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF BOTANY

Date: 21-07-2022

NOTICE

All the students in P. V. P. Mahavidyalaya, Kavathe Mahankal are informed that, Department of Botany is going to start the career-oriented course in "Nursery Management". The interested students are requested to enroll upto 31st July, 2023.


Course Coordinator


Head
HEAD
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

Brochure

Shikshan Prasarak Sanstha's
Padmabhushan Vasantrodada Patil Mahavidyalaya



Kavathe Mahankal, Sangli
Affiliated to Shivaji University, Kolhapur

Department of Botany



Open for
Enrollment

A Career Oriented Course in Nursery Management

Starting From 01 August 2023

Specifications:

- ❖ Well equipped labs
- ❖ Experienced teachers
- ❖ Free Certificate

Join Now


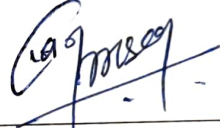


Contact us on:
Mob No. 9822495288

PadmabhushanVasatraodada Patil Mahavidyalaya, KavatheMahankal.

DEPARTMENT OF BOTANY

Nursery Management

Board of Studies

Sr. No.	Name	Designation	Signature
1.	Asso. Prof. T. G. Patil	President	
2.	Asso. Prof. Dr. B. T. Jadhav	Member	
3.	Mr. S. M. Sabale	Member	
4.	Mr. S. B. Patil	Member	

DEPARTMENT OF BOTANY

Nursery Management

A nursery is a place where plants are propagated and grown to a desired size. In a word, a nursery is a centre of seedling production where seedlings are produced and taken care of until transplantation in the main field. 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. Some will also work in plant breeding. For the developing nursery requires a perfect management. Nursery provide a good business opportunity to growers.

Now days we should conduct a massive campaign to create awareness on carrier oriented courses. For this purpose we implement the carrier oriented course in Nursery Management in our institute. The nursery management programme carried out on student level can be more effective.

Aims and Objectives:

- ❖ The main objective of the nursery is to grow plants in an open environment.
- ❖ To maintain a good quality of plants and protect the plants from pests and diseases.
- ❖ It was the responsibility of the commercial nursery growers to develop good quality of plants for their customers.

Duration:

The course will be completed in 43 hours (3 months).

Eligibility of the student:

- ❖ The student must have the basic knowledge of Botany.
- ❖ Student must have passed H. Sc. Examination.
- ❖ Student studying in institute for B.Sc.

Course outcomes:

By the end of this course students are expected,

- ❖ To gain some basic knowledge different plant species and how the seedlings are grown.
- ❖ To know about the different horticultural techniques, plant propagation techniques.
- ❖ To know about selling and packing of plantlets.
- ❖ To aware about different problems when creating a good nursery.

Evaluation Method:

All the students will be continuously evaluated by,

1. Theory examination	50 M
2. Practical examination	30 M
3. Oral	20M

100 M

Nature of Theory Question Paper.

Q. 1. 25 Multiple choice question. (50 marks)

Nature of practical Examination.

During Practical examination student have to perform three practical. Examination will be of five hours. Oral examination is conducted during practical exam.

Grades: A grade= above 60, B grade = above 50, C grade = above 40

Certification: A certificate will be issued on successful completion of the course.

CARRIER ORIENTED COURSE

Duration: 3 Months (43 Hours)

Theory (28 Hours)

- Unit-I:** 08
- Propagation- Importance and potentialities.
 - Sexual and asexual methods of propagation.
 - Advantages and disadvantages of propagation.
- Unit-II:** 09
- Methods of vegetative propagation: Cutting, budding, layering and grafting techniques.
 - Preparation of nursery bed, orchard layout, system of crop planting, pot mixture and making.
- Unit-III:** 06
- Problems of horticulture crops
 - Factors influencing rooting of cutting, layering and grafting.
- Unit- IV:** 05
- Use of growth regulators in propagation, media for propagation of plants in nursery beds.

Practical (15 Hours)

- Preparation of different types of cuttings, budding.
- Preparation of different types of layering and grafting.
- Uprooting, digging nursery plant.
- Labelling of nursery plant.
- Packing of nursery plant.

References

1. Dr.Arunkumar Singh and Abhinavkumar (2020). Propagation and nursery management.
2. R.R.Sharma and Manish Srivastav (2004). Plant propagation and nursery management.
3. B.S. Chundawat (2017). Plant propagation and nursery management


HEAD
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

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DEPARTMENT OF BOTANY

Nursery Management

TIMETABLE

Day	Monday	Tuesday	Wednesday	Friday
Theory/ Practical	Theory	Theory	Theory	Practical
Lecturer	SMS	BTJ	SBP	TGP

- The time of theory lectures will be 2:30pm to 3:30pm in Botany department.
- The time for practical will be 2:30pm to onwards in Botany laboratory.
- This lecture schedule is followed from 01st August to 20th October in first semester.



Course Co-ordinator



**Head
HEAD**

**Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal**

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF BOTANY

Nursery Management

Notice

Date: 28-07-2023

All the enrolled students are informed that, the lectures and practicals of the course will be started from **1st August** as per timetable. All the lectures and practicals will be conducted in Botany department.


Course Coordinator


HEAD
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

Padmabhushan Vasantrodada Patil Mahavidyalaya, KavatheMahankal.

DEPARTMENT OF BOTANY

Nursery Management

Admission List

Sr. No.	Name of Student	Roll No.
1	* Mali Sayee Ganesh	B01
2	* Patil Sanika Machindra	B02
3	Chavan Amit Vinayak	B03
4	Chougule Ganesh Rajaram	B04
5	* Patil Minal Kumar	B05
6	* Koshti Shraddha Shrikant	B06
7	* Kadam Snehal Dadaso	B07
8	* Bedage Sakshi Sanjay	B08
9	* Bedage Aishwarya Dattatray	B09
10	* Patil Pratiksha Hitendra	B10
11	* Shinde Pranali Baban	B11
12	* Kadam Namrata Balaso	B12
13	* Kadam Sayali Sandip	B13
14	* Borkar Renuka Suresh	B14
15	* Mane Sanika Subhash	B15
16	* Mane Snehal Sanjay	B16
17	* Shinde Vaishnavi Shivaji	B17
18	* Vhanmane Pooja Vilas	B18
19	* Harage Pooja Sanjay	B19
20	* Vhanmane Aarti Vilas	B20
21	* Limkar Vaibhavi Balasaheb	B21
22	* Kamble Vaishnavi Pradhan	B22
23	* Banasode Shruti Roshan	B23
24	Deshmukh Pratapsinh Bhausahab	B24
25	Mali Namdev Dadasahab	B25
26	Masal Rupesh Shivaji	B26
27	* Mane Dipika Raju	B27
28	Gaikwad Ritesh Laxman	B28

29	Khot Pradip Shirirang	B29
30	Jadhav Mahesh Shivshankar	B30
31	Patil Dhiraj Dattatray	B31
32	Kumbhar Suyog Jotiram	B32
33	Shinde Chaitanya	B33
34	*Desai Rutuja Appa	B34
35	*Kalekar Anushka Ramchandra	B35


HEAD
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

Sr. No.	Date	Student Name
8.	01/08/2023	* Bedage Sakshi Sanjay
	02/08/2023	
	07/08/2023	
	08/08/2023	
	09/08/2023	
	14/08/2023	
	21/08/2023	
	22/08/2023	
	23/08/2023	
	28/08/2023	
	29/08/2023	
	30/08/2023	
	04/09/2023	
	05/09/2023	
	06/09/2023	
	11/09/2023	
	12/09/2023	
	13/09/2023	
	25/09/2023	
	26/09/2023	
	27/09/2023	
	03/10/2023	
	04/10/2023	
	09/10/2023	
	10/10/2023	
	11/10/2023	
	16/10/2023	
	17/10/2023	
9		* Bedage Aishwarya Dattatray
10		* Patil Pratiksha Hitendra
11		* Shinde Pranali Baban
12		* Kadam Namrata Balaso
13		* Kadam Sayali Sandip
14		* Borkar Renuka Suresh
15		* Mane Sanika Subhash

Sr. No.	Date	Student Name
24.	Deshmukh Pratapsinh Bhausaheb	01/08/2023 02/08/2023 07/08/2023 08/08/2023 09/08/2023 14/08/2023 21/08/2023 22/08/2023 23/08/2023 28/08/2023 29/08/2023 30/08/2023 04/09/2023 05/09/2023 06/09/2023 11/09/2023 12/09/2023 13/09/2023 25/09/2023 26/09/2023 27/09/2023 03/10/2023 04/10/2023 09/10/2023 10/10/2023 11/10/2023 16/10/2023 17/10/2023
25.	Mali Namdev Dadasaheb	
26.	Masal Rupesh Shivaji	
27.	* Mane Dipika Raju	
28.	Gaikwad Ritesh Laxman	
29.	Khot Pradip Shrirang	
30.	Jadhav Mahesh Shivshankar	

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.
DEPARTMENT OF BOTANY

**Nursery Management
 Practical Attendance**

Sr. No.	Date Student Name	11/08/2023	25/08/2023	08/09/2023	29/09/2023	06/10/2023
		* Mali Sayee Ganesh	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>
* Patil Sanika Machindra	<u>Sanika Patil</u>	<u>Sanika Patil</u>	<u>Sanika Patil</u>	<u>Sanika Patil</u>	<u>Sanika Patil</u>	
Chavan Amit Vinayak	<u>Amit</u>	<u>Amit</u>	<u>Amit</u>	<u>Amit</u>	<u>Amit</u>	
Chougule Ganesh Rajaram	<u>Ganesh</u>	<u>Ganesh</u>	<u>Ganesh</u>	<u>Ganesh</u>	<u>Ganesh</u>	
* Patil Minal Kumar	<u>M. Patil</u>	<u>M. Patil</u>	<u>M. Patil</u>	<u>M. Patil</u>	<u>M. Patil</u>	
* Koshti Shraddha Shrikant	<u>S. Koshti</u>	<u>S. Koshti</u>	<u>S. Koshti</u>	<u>S. Koshti</u>	<u>S. Koshti</u>	
* Kadam Snehal Dadaso	<u>S. Kadam</u>	<u>S. Kadam</u>	<u>S. Kadam</u>	<u>S. Kadam</u>	<u>S. Kadam</u>	
* Bedage Sakshi Sanjay	<u>S. Bedage</u>	<u>S. Bedage</u>	<u>S. Bedage</u>	<u>S. Bedage</u>	<u>S. Bedage</u>	
* Bedage Aishwarya Dattatray	<u>A. Bedage</u>	<u>A. Bedage</u>	<u>A. Bedage</u>	<u>A. Bedage</u>	<u>A. Bedage</u>	
* Patil Pratiksha Hitendra	<u>P. Patil</u>	<u>P. Patil</u>	<u>P. Patil</u>	<u>P. Patil</u>	<u>P. Patil</u>	
* Shinde Pranali Baban	<u>P. Shinde</u>	<u>P. Shinde</u>	<u>P. Shinde</u>	<u>P. Shinde</u>	<u>P. Shinde</u>	
* Kadam Namrata Balaso	<u>N. Kadam</u>	<u>N. Kadam</u>	<u>N. Kadam</u>	<u>N. Kadam</u>	<u>N. Kadam</u>	
* Kadam Sayali Sandip	<u>S.S. Kadam</u>	<u>S.S. Kadam</u>	<u>S.S. Kadam</u>	<u>S.S. Kadam</u>	<u>S.S. Kadam</u>	
* Borkar Renuka Suresh	<u>R.S. Borkar</u>	<u>R.S. Borkar</u>	<u>R.S. Borkar</u>	<u>R.S. Borkar</u>	<u>R.S. Borkar</u>	
* Mane Sanika Subhash	<u>S.S. Mane</u>	<u>S.S. Mane</u>	<u>S.S. Mane</u>	<u>S.S. Mane</u>	<u>S.S. Mane</u>	
* Mane Snehal Sanjay	<u>S. Mane</u>	<u>S. Mane</u>	<u>S. Mane</u>	<u>S. Mane</u>	<u>S. Mane</u>	
* Shinde Vaishnavi Shivaji	<u>V. Shinde</u>	<u>V. Shinde</u>	<u>V. Shinde</u>	<u>V. Shinde</u>	<u>V. Shinde</u>	

Sr. No.	Date Student Name	11/08/2023	25/08/2023	08/09/2023	29/09/2023	06/10/2023
		18	* Vhanmane Pooja Vilas	<u>Pvt</u>	<u>Pvt</u>	<u>Pvt</u>
19	* Harage Pooja Sanjay	<u>Harage</u>	<u>Harage</u>	<u>Harage</u>	<u>Harage</u>	<u>Harage</u>
20	* Vhanmane Aarti Vilas	<u>Avt</u>	<u>Avt</u>	<u>Avt</u>	<u>Avt</u>	<u>Avt</u>
21	* Limkar Vaibhavi Balasaheb	<u>Bimkar</u>	<u>Bimkar</u>	<u>Bimkar</u>	<u>Bimkar</u>	<u>Bimkar</u>
22	* Kamble Vaishnavi Pradhan	<u>Kam</u>	<u>Kam</u>	<u>Kam</u>	<u>Kam</u>	<u>Kam</u>
23	* Banasode Shruti Roshan	<u>SRB</u>	<u>SRB</u>	<u>SRB</u>	<u>SRB</u>	<u>SRB</u>
24	Deshmukh Pratapsinh Bhausaheb	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>
25	Mali Namdev Dadasaheb	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>
26	Masal Rupesh Shivaji	<u>Rupesh</u>	<u>Rupesh</u>	<u>Rupesh</u>	<u>Rupesh</u>	<u>Rupesh</u>
27	* Mane Dipika Raju	<u>DMane</u>	<u>DMane</u>	<u>DMane</u>	<u>DMane</u>	<u>DMane</u>
28	Gaikwad Ritesh Laxman	<u>Raitwad</u>	<u>Raitwad</u>	<u>Raitwad</u>	<u>Raitwad</u>	<u>Raitwad</u>
29	Khot Pradip Shrirang	<u>SKhot</u>	<u>SKhot</u>	<u>SKhot</u>	<u>SKhot</u>	<u>SKhot</u>
30	Jadhav Mahesh Shivshankar	<u>M.S.Jadhav</u>	<u>M.S.Jadhav</u>	<u>M.S.Jadhav</u>	<u>M.S.Jadhav</u>	<u>M.S.Jadhav</u>
31	Patil Dhiraj Dattatray	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
32	Kumbhar Suyog Jotiram	<u>SK</u>	<u>SK</u>	<u>SK</u>	<u>SK</u>	<u>SK</u>
33	Shinde Chaitanya	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>
34	*Desai Rutuja Appa	<u>RDesai</u>	<u>RDesai</u>	<u>RDesai</u>	<u>RDesai</u>	<u>RDesai</u>
35	*Kalekar Anushka Ramchandra	<u>ARK</u>	<u>ARK</u>	<u>ARK</u>	<u>ARK</u>	<u>ARK</u>

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.
DEPARTMENT OF BOTANY
Nursery Management
Exam Attendance

Sr. No.	Date Student Name	Theory	Practical
		20/10/2023	21/10/2023
1	* Mali Sayee Ganesh	<u>Amali</u>	<u>Amali</u>
2	* Patil Sanika Machindra	<u>Ampanil</u>	<u>Ampanil</u>
3	Chavan Amit Vinayak	<u>Amit</u>	<u>Amit</u>
4	Chougule Ganesh Rajaram	<u>Ganesh</u>	<u>Ganesh</u>
5	* Patil Minal Kumar	<u>MKPatil</u>	<u>MKPatil</u>
6	* Koshti Shraddha Shrikant	<u>Skanti</u>	<u>Skanti</u>
7	* Kadam Snehal Dadaso	<u>Snehal</u>	<u>Snehal</u>
8	* Bedage Sakshi Sanjay	<u>Sbedage</u>	<u>Sbedage</u>
9	* Bedage Aishwarya Dattatray	<u>Abedage</u>	<u>Abedage</u>
10	* Patil Pratiksha Hitendra	<u>Pratik</u>	<u>Pratik</u>
11	* Shinde Pranali Baban	<u>Pranali</u>	<u>Pranali</u>
12	* Kadam Namrata Balaso	<u>Nkadamb</u>	<u>Nkadamb</u>
13	* Kadam Sayali Sandip	<u>S.S. Kadam</u>	<u>S.S. Kadam</u>
14	* Borkar Renuka Suresh	<u>R.S. Borkar</u>	<u>R.S. Borkar</u>
15	* Mane Sanika Subhash	<u>S.S. Mane</u>	<u>S.S. Mane</u>
17	* Mane Snehal Sanjay	<u>Snehal</u>	<u>Snehal</u>
18	* Shinde Vaishnavi Shivaji	<u>Vshinde</u>	<u>Vshinde</u>
19	* Vhanmane Pooja Vilas	<u>PV</u>	<u>PV</u>

Sr. No.	Date	Theory	Practical
	Student Name	20/04/23	21/04/23
20	* Vhanmane Aarti Vilas	<u>AV</u>	<u>AV</u>
21	* Limkar Vaibhavi Balasaheb	<u>VL</u>	<u>VL</u>
22	* Kamble Vaishnavi Pradhan	<u>KV</u>	<u>KV</u>
23	* Banasode Shruti Roshan	<u>SRB</u>	<u>SRB</u>
24	Deshmukh Pratapsinh Bhausahab	<u>Deshmukh</u>	<u>Deshmukh</u>
25	Mali Namdev Dadasahab	<u>Nmani</u>	<u>Nmani</u>
26	Masal Rupesh Shivaji	<u>RMasal</u>	<u>RMasal</u>
27	* Mane Dipika Raju	<u>Mane</u>	<u>RMane</u>
28	Gaikwad Ritesh Laxman	<u>Raikwad</u>	<u>Raikwad</u>
29	Khot Pradip Shrirang	<u>PKhot</u>	<u>PKhot</u>
30	Jadhav Mahesh Shivshankar	<u>M.S.Jadhav</u>	<u>M.S.Jadhav.</u>
31	Patil Dhiraj Dattatray	<u>Patil</u>	<u>Patil.</u>
32	Kumbhar Suyog Jotiram	<u>SK</u>	<u>SK</u>
33	Shinde Chaitanya	<u>Shinde</u>	<u>Shinde.</u>
34	*Desai Rutuja Appa	<u>Desai</u>	<u>Desai</u>
35	*Kalekar Anushka Ramchandra	<u>ARK</u>	<u>ARK</u>

Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.
DEPARTMENT OF BOTANY
Nursery Management
Teacher Attendance

Sr. No	Name of Faculty	Lecture Dates									
		07/08/23	14/08/23	21/08/23	28/08/23	04/09/23	11/09/23	25/09/23	09/10/23	16/10/23	
1	Mr. Sabale S. M.										
		Lecture Dates									
2	Dr. Jadhav B. T.	01/08/23	08/08/23	22/08/23	29/08/23	05/09/23	12/09/23	26/09/23	03/10/23	10/10/23	17/10/23
		Lecture Dates									
3	Mr. Patil S. B.	02/08/23	09/08/23	23/08/23	30/08/23	06/09/23	13/09/23	27/09/23	04/10/23	11/10/23	
		Practical Dates									
4	Mr. Patil T. G.	11/08/2023	25/08/2023	08/09/2023	29/09/2023	06/10/2023					

Photo



Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF BOTANY

Nursery Management

NOTICE

14/10/2023

All the enrolled students are informed that, the timetable for theory examination and practical examination of the course in "Nursery Management" is as below,

Examination	Date	Time	Venue
Theory	20/10/2023	2:30pm to 4.30pm	Botany Lecture Hall
Practical	21/10/2023	2:30pm to Onwards	Botany Laboratory


Co-ordinator


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P.V.P. Mahavidyalaya
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DEPARTMENT OF BOTANY

Nursery Management

Theory Examination

Date: 20/10/2023

Marks: 50

Time: 2:30pm to 4.30pm

Roll No.

Instructions: 1) All questions are compulsory

2) All questions carry equal marks

Q.1 Choose the correct alternatives of the following questions. Each question carries two marks.

1) Pomoculture is the study of

a) Fruit plants b) Flowering plants c) Vegetables d) Ornamental plants

2) Floriculture is the study of cultivation of

a) Fruit plants b) Flowering plants c) Vegetables d) Ornamental plants

3) Olericulture is the study of cultivation of plants.

a) Seedless fruit b) Flowering c) Vegetables d) Fruit

4) King of fruit is called

a) Mango b) Guava c) Apple d) Banana

5) A low branch with a node is bent down and covered with soil in

a) Grafting b) Budding c) Layering d) Marcotting

6) Grafting is the method of reproduction.

a) Sexual b) Vegetative c) Apomixis d) All of these

7) The part of plant on which grafting is done is called

a) Stock b) Scion c) Stem d) Leaf

8) The part of plant which is inserted on stock is called

a) Stock b) Scion c) Root stock d) Bud

9) Sexual propagation is carried out by using

a) Seeds b) Roots c) Stem d) Leaf

10) Air layering is known as

a) Budding b) Grafting c) Gootee d) Cutting

11) World environment day on

a) 28th February b) 5th June c) 7th August d) 10th April

12) Seed treatment is done to control disease.

a) Soil born b) Air born c) Seed born d) None of these

- 13) The word horticulture is derived from
- a) Greek b) Latin c) Arotic d) French
- 14) Cutting is a method of reproduction.
- a) Vegetative b) Sexual c) Natural d) All of these
- 15) For successful grafting stocks scion shall be of.....
- a) Same species b) Different class c) Similar group d) Different species
- 16) The art of making animal shapes in plants called
- a) Topiary b) Pinching off c) Edging d) Hardening
- 17) Seed viability test is called astest.
- a) Ragdoll b) Tetrazolium c) Vigour d) Germination
- 18) The plant part used for tissue culture is
- a) Stem cell b) Guard cell c) Proplant d) Explant
- 19) After transplanted seedlings, the seedling should be placed in
- a) Coller b) Direct sulight c) Under mist d) Under a bench
- 20) Growing plants out of their normal season by use of an artificial environments known as
- a) Forcing b) Propagating c) Cultivating d) None of these
- 21) For bedding plants, the production and marketing period is primarily in the
- a) Winter b) Summer c) Spring d) Fall
- 22) Nursery plant containers are sized by the.....
- a) Inch b) Centimeter c) Gallon d) Cubic yard
- 23) Container grown nursery stock is usually planted in
- a) Early spring b) Winter c) Summer d) Late spring
- 24) A plant too small for landscape use but ideal for growing into a larger size called.....
- a) Cutting b) Seedling c) Liner d) Sapling
- 25) Small trees are lined out at age.
- a) 1-2 years old b) 3-6 years old c) 2-4 years old d) 3-5 years old


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DEPARTMENT OF BOTANY

Nursery Management

Practical Examination

Date: 21/10/2023

Marks: 30

Time: 2:30pm to Onwards

- Instructions:**
- 1) All questions are compulsory
 - 2) All questions carry equal marks

Q.1 Prepare a any type of budding on given sample A.

Q.2 Prepare a any type of layering on given sample B.

Q.3 Prepare a proper labeling for given nursery plant.



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DEPARTMENT OF BOTANY
Nursery Management
Result

Sr. No.	Roll No.	Evaluation Student Name	Theory	Practical	Oral	Total	Grade
1	B01	* Mali Sayee Ganesh	46	28	19	93	A
2	B02	* Patil Sanika Machindra	42	27	19	88	A
3	B03	Chavan Amit Vinayak	40	27	15	82	A
4	B04	Chougule Ganesh Rajaram	42	25	15	82	A
5	B05	* Patil Minal Kumar	38	26	18	82	A
6	B06	* Koshti Shraddha Shrikant	36	24	18	78	A
7	B07	* Kadam Snehal Dadaso	40	25	17	82	A
8	B08	* Bedage Sakshi Sanjay	44	27	19	90	A
9	B09	* Bedage Aishwarya Dattatray	42	27	19	88	A
10	B10	* Patil Pratiksha Hitendra	42	24	17	83	A
11	B11	* Shinde Pranali Baban	34	25	17	76	A
12	B12	* Kadam Namrata Balaso	38	24	18	80	A
13	B13	* Kadam Sayali Sandip	38	25	16	79	A
14	B14	* Borkar Renuka Suresh	40	26	14	80	A
15	B15	* Mane Sanika Subhash	40	27	18	85	A
16	B16	* Mane Snehal Sanjay	42	26	19	87	A
17	B17	* Shinde Vaishnavi Shivaji	40	24	19	83	A
18	B18	* Vhanmane Pooja Vilas	42	24	18	84	A
19	B19	* Harage Pooja Sanjay	42	25	18	85	A
20	B20	* Vhanmane Aarti Vilas	40	26	17	83	A
21	B21	* Limkar Vaibhavi Balasaheb	42	24	18	84	A
22	B22	* Kamble Vaishnavi Pradhan	36	25	17	78	A
23	B23	* Banasode Shruti Roshan	42	26	14	85	A
24	B24	Deshmukh Pratapsinh Bhauasaheb	38	26	16	80	A
25	B25	Mali Namdev Dadasaheb	38	24	17	79	A

26	B26	Masal Rupesh Shivaji	42	26	15	83	A
27	B27	* Mane Dipika Raju	44	25	14	83	A
28	B28	Gaikwad Ritesh Laxman	42	26	18	86	A
29	B29	Khot Pradip Shrirang	46	26	16	88	A
30	B30	Jadhav Mahesh Shivshankar	42	24	17	83	A
31	B31	Patil Dhiraj Dattatray	46	24	17	87	A
32	B32	Kumbhar Suyog Jotiram	38	25	18	81	A
33	B33	Shinde Chaitanya	42	23	14	79	A
34	B34	*Desai Rutuja Appa	42	23	14	79	A
35	B35	*Kalekar Anushka Ramchandra	50	24	15	89	A



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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Mali Sayee Ganesh* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Patil Sanika Machindra* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Chavan Amit Vinayak* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Chougule Ganesh Rajaram* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Patil Minal Kumar* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Koshti Shraddha Shrikant* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kadam Snehal Dadaso* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Bedage Sakshi Sanjay* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Bedage Aishwarya Dattatray* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Patil Pratiksha Hitendra* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Shinde Pranali Baban* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kadam Namrata Balaso* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kadam Sayali Sandip* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Borkar Renuka Suresh* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Mane Sanika Subhash* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Mane Snehal Sanjay* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Shinde Vaishnavi Shivaji* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Vhanmane Pooja Vilas* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Harage Pooja Sanjay* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "*A*" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Vhanmane Aarti Vilas* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Limkar Vaibhavi Balasaheb* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kamble Vaishnavi Pradhan* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Banasode Shruti Roshan* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Deshmukh Pratapsinh Bhausaheb* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Mali Namdev Dadasaheb* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Masal Rupesh Shivaji* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
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C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Mane Dipika Raju* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Gaikwad Ritesh Laxman* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Khot Pradip Shrirang* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Jadhav Mahesh Shivshankar* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Patil Dhiraj Dattatray* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kumbhar Suyog Jotiram* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Shinde Chaitanya* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Desai Rutuja Appa* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur

DEPARTMENT OF BOTANY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kalekar Anushka Ramchandra* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator
Dr. B. T. Jadhav

Head
Department of Botany
Mr. T. G. Patil

Acting Principal
Prof. (Dr.) M. K. Patil

**Padmabhushan Vasantodada Patil Mahavidyalaya,
Kavathe Mahankal.**

DEPARTMENT OF ZOOLOGY

Career Oriented Course

in

“Vermicomposting”

(2023-24)



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From,
Head,
Department of zoology
P. V. P. College, Kavathe Mahankal,
Dist. Sangli, Maharashtra 416405
Date: 01/07/2022

To,
The Principal,
Padmabhushan Vasatraodada Patil Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli,
Maharashtra 416405

Subject: Seeking a permission to start the career-oriented course in "Vermicomposting".

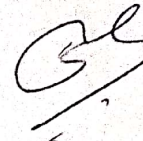
Respected sir,

As per your guidelines we are going to start a career-oriented course in "Vermicomposting" in Department of Zoology for our college students. This course will be of 30 hours and will be completed during August 2023 to October 2023. The course will be definitely very beneficiary for students.

I request you to grant us permission for the same.

Thanking you.

Yours faithfully,



Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

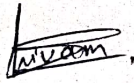
Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Date: 2-07-2023

NOTICE

All the students in P. V. P. college, Kavathe Mahankal are hereby informed that, Department of Zoology is going to start the career oriented course in "Vermicomposting". The interested students are requested to enroll upto 31st July, 2023.



Coordinator



Head

Head

**Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.**

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

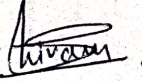
DEPARTMENT OF ZOOLOGY

Vermicomposting


Date: 01-08-2023

NOTICE

All the enrolled students are hereby informed that, the lectures of the course will be started from 2nd August, 2023 as per timetable. All the lectures will be conducted at Department of Zoology. All the enrolled students must be remaining present for the same.



Coordinator
Mr. Shivam P. Jagade.



Head
Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli

Brochure

Padmbhushan Vasantroodada Patil Mahavidyalaya Kavathe Mahankal

To have basic knowledge of vermiculture, vermicomposting and vermiwash



It helps to create organic manures which is useful to farmers for organic farming, by means of which it helps to provide healthy food and avoid pollution

To develop aptitude for scientific work and scientific ability to develop vermicompost

To aware the peoples of natural resources and environment.

Department of Zoology organizes, Carrier Oriented Course on, **VERMICOMPOSTING**



To acquaint students with some basic concepts of Vermicomposting

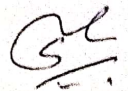
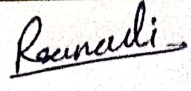

Aware students about the importance of organic manure.

Padmabhushan Vasantaoada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Data Analysis using MS Excel

Board of Studies

Sr. No.	Name	Designation	Signature
1.	Prof. (Dr.) Suvarna B. More	President	
2.	Asst. Prof. (Dr.) Reshma A. Sanadi	Member	
3.	Mr. Shivam P. Jaganade	Member	

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Vermicomposting

Objectives:

1. To acquaint students with some basic concepts of Vermicomposting.
2. To aware students about the importance of organic manure.
3. To know the process of vermicomposting.

Duration:

The course will be completed in 30 hours (3 months).

Eligibility of the student:

1. The student must have the basic knowledge of Farming.
2. Student must have passed H. Sc. Examination.

Course outcomes:

- By the end of this course students are expected,
1. To have basic knowledge of vermiculture, vermicomposting and vermiwash.
 2. To develop aptitude for scientific work and scientific ability to develop vermicompost.
 3. To aware the peoples of natural resources and environment.
 4. It helps to create organic manures which is useful to farmers for organic farming, by means of which it helps to provide healthy food and avoid pollution.

Evaluation Method:

The examination will be conducted in two parts – theory and practical. Theory examination will consist of 25 multiple choice questions which will be conducted online/offline and Practical examination will be of 25 marks which will be at the Department of Zoology at end of the course.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Vermicomposting

Syllabus

Objectives and course outcomes:

1. To acquaint students with some basic concepts of Vermicomposting.
2. To aware students about the importance of organic manure.
3. To know the process of vermicomposting.

Unit 1: Vermiculture

(08 hours)

1.1 Introduction: Vermiresources, Annelids useful for man and environment

1.2 Systemic position of Earthworm: Species diversity (Endemic and exotic), Classification of Earthworm, Study of various species of Earthworms, Region. wise distribution of Earthworm in India.

1.3 Habit and Habitat: Habits of Earthworm, Habitat and Habitat diversity, Seasonal dynamics, Study of various environmental factors affecting the habits (Soil type, pH, temperature, water, atmospheric gases etc)

1.4 External characters: Study of external characters and segmentation-a) Body division of Earthworm, b)size,shape and colouration, c)segmentation

1.5 Study of gut microflora: Study of various Microorganisms found in gut of earthworm, Classification of useful and harmful microbes, Role of earthworm in dispersal of beneficial and harmful microorganisms.

1.6 Setting of composting small units : Study of various composting materials (cattle dung, leaf litter, various agricultural byproducts, domestic sewage, vegetable wastes etc), Study of small composting units- a)Collection and preparation of composting material, b)construction of compost beds, various types i)simple polythene bed, ii) Composite cement bed, d)various types of productive shades- size, shape, height, width etc.

2 Unit 2: Vermicomposting

(7 hours)

A. Vermitechnology

I. Vermiculture

- i. Introduction
- ii. Applications or potentials of Earthworm in various fields like
 - a) Waste decomposer

- b) Biofertilizer manufacturer
- c) Land recliner
- d) Protein producer
- e) Food source
- f) Drug source
- g) Vitamin source
- h) Natural detoxicant
- i) As a bait.
- iii. Study of various species of Earthworms
 - i. Introduction
 - ii. Brief introduction about species diversity
 - iii. Epigeic species
 - iv. Endogenic species
 - v. Anecic species
 - vi. Varieties of Earthworm
 - a) Night crawlers
 - b) Field worms
 - c) Manure worms
 - d) Red worms
- iv. Culturing of Earthworms

B. Vermicomposting

I. Introduction

II. Types of Earthworms suitable for vermicomposting.

III. Shed construction

IV. Various methods of Vermicomposting

- i. Heap method
- ii. Pit method
- iii. Bed method
- iv. Daily maintenance method
- v. Harvesting of vermicomposting
- vi. Screening {filtration} and packing

V. Study of Raw Materials for vermicomposting

- i. Introduction
- ii. Food preference by earthworms
- iii. Various types of raw materials

Eg. Organic product, vegetables, F.Y.M, Leaf litter, byproduct of agriculture after crop-harvesting etc.

VI. Applications of Vermicompost in Agri & Horticulture

VII. Major ingredients and their percentage in vermicompost

VIII. Effect of vermicompost on soil fertility.

IX. Setting of a large vermicomposting unit

- i. Introduction
- ii. Basic requirements designing and planning
- iii. Size, shape & infrastructure [Space required]
- iv. Protective measures
- v. Various equipments like screen, packing bags, packing machine, weight balance etc.
- vi. Water management
- vii. Economics

X. Vermiwash

- i. Introduction
- ii. Methods of preparation & collection
- iii. It's chemical composition & its uses

XI. Benefits of Vermicomposting

- i. Waste & pollution management
- ii. Production of superior quality manure from inferior wastes.
- iii. It's field applications & better results

XII. Environmental assessment

- i. The benefits of vermicompost in environment
- ii. Best methods for pollution control
- iii. Proper use of various biodegradable wastes
- iv. To keep the environment clean & healthy

XIII. Marketing & Economy output.

PRACTICAL

Paper I- Vermiculture

(08 hours)

- I. Systemic position and external characteristic
- II. Dissection of digestive system
- III. Dissection of nervous system
- IV. Dissection of reproductive system
- V. Study of Cloaca
- VI. Observation of Gut Microflora
 - i. Preparation of material
 - ii. Preparation of slide
 - iii. Staining and Observation
 - iv. Identification of Microorganisms
- VII. Preparation of Protective shade
 - i. Observation of various types of material used for shade construction
- VIII. Arranging different types of composting unit
 - i. Study & observation of various compost materials
 - ii. Preparation of compost beds
- IX. Collection and packing of vermicompost
- X. Collection of Vermi-wash
- XI. Various uses of vermi-wash

Paper II- Vermicomposting

- I. Identification of various species
 - a. Epigic
 - b. Anecic
 - c. Endogenic
- II. Dissection of Reproductive system and Mounting of ovary, testes, spermatheca
- III. Observation of cocoon
- IV. Various methods and materials required for the vermicomposting
 - i. Shed construction
 - ii. Materials required
- V. Study of various composting methods
 - i. Heap methods
 - ii. Pit methods
 - iii. Bed methods

- VI. Preparation of material for composting**
 - i. Collecting of material
 - ii. Processing of material
 - iii. Removal of unwanted material
 - iv. Slurry Preparation
- VII. Study of various types of wastes**
 - i. Organic wastes
 - ii. Dry wastes
 - iii. Field waste
- VIII. Methods of reducing size of wastes**
- IX. Microbial Inoculation**
- X. Methods of harvesting and packing of vermicompost**
- XI. Insitu application of vermicompost for potted and observation of result**
- XII. Setting of small scale composting units**
- XIII. Preparation of vermiwash and its applications**
- XIV. Comparative study of vermicompost and chemically fertilized agricultural lands.**

**TIMETABLE FOR CERTIFICATE COURSE IN Vermiculture and
vermicomposting technology (2023-24)**

B. Sc. II and B.Sc. III

Day	Lecturer: Prof. (Dr.) S. B. More			
Monday	***	07-08-2023	14-08-2023	***
Tuesday	***	08-08-2023	***	***
Wednesday	02-08-2023	***	23-08-2023	***
Thursday	03-08-2023	***	24-08-2023	31-08-2023
Friday	04-08-2023	11-08-2023	***	***
Saturday	***	12-08-2023	***	***

Day	Lecturer: Dr. R. A. Sanadi				
Monday	***	04-09-2023	***	18-09-2023	***
Tuesday	***	***	***		***
Wednesday	***	***	13-09-2023	20-09-2023	***
Thursday	***	***	***	***	***
Friday	***	08-09-2023	15-09-2023	***	29-09-2023
Saturday	02-09-2023	09-09-2023	***	***	30-09-2023

Day	Lecturer: Mr. S. P. Jaganade				
Monday	***	***	***	23-10-2023	
Tuesday	03-10-2023	10-10-2023	***	***	***
Wednesday	04-10-2023	11-10-2023	***	***	***
Thursday	***	***	19-10-2023	***	***
Friday	06-10-2023	***	20-10-2023	***	***
Saturday	***	14-10-2023	***	***	***

[Signature]
Head

**Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.**

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. III)

Theory

Sr. No.	Name	1-9-23	4-8-23	7-9-23	12-9-23	24-8-23	4-9-23	9-9-23	13-9-23	18-9-23	27-9-23	30-9-23	3-10-23	11-10-23	19-10-23	20-10-23
1.	Patil Rutuja Ashok	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2.	Salunkhe Sanika Kailas	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3.	Phakade Pratibha Mohan	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4.	Shirke Ashwini Shivaji	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5.	Jadhav Pornima Sanjay	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6.	Kharade Rupali Ramchandra	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7.	Kshirsagar Anisha Anil	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8.	Bhosale Sanika Sanjay	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9.	Mane Rutuja Anil	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10.	Bhosale Sandhyarani Amol	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11.	Kambale Rohan Rajesh	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12.	Kambale Shridhar Mohan	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13.	Chavan Bhushan Rajendra	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4.	Bansode Sagar Sambhaji	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
	Mane Vishwajeet Santosh	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

(Signature)

Co-ordinator.

(Signature)

Head
Department of Zoology
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. III) Practical

Sr. No.	Name	3-9-23	3-8-23	11-8-23	14-8-23	23-8-23	31-9-23	2-9-23	9-9-23	15-9-23	20-9-23	09-10-23	6-10-23	10-10-23	14-10-23	23-10-23
1.	Patil Rutuja Ashok	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2.	Salunkhe Sanika Kailas	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe
3.	Phakade Pratibha Mohan	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade	Phakade
4.	Shirke Ashwini Shivaji	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke
5.	Jadhav Pornima Sanjay	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
6.	Kharade Rupali Ramchandra	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade
7.	Kshirsagar Anisha Anil	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar	Kshirsagar
8.	Bhosale Sanika Sanjay	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale
9.	Mane Rutuja Anil	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
10.	Bhosale Sandhyarani Amol	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale	Bhosale
11.	Kambale Rohan Rajesh	Kambale	Kambale	Kambale	AD	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale
12.	Kambale Shridhar Mohan	Kambale	Kambale	AD	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale	Kambale
13.	Chavan Bhushan Rajendra	Chavan	Chavan	Chavan	Chavan	AD	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
14.	Bansode Sagar Sambhaji	AB	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode
15.	Mane Vishwajeet Santosh	Mane	AD	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane

Anuram
Co-ordinator

[Signature]
Head
Department of Zoology
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. II) Theory

Sr. No.	Name	1-8-23	4-9-23	7-8-23	12-9-23	24-9-23	4-9-23	9-9-23	13-9-23	18-9-23	27-9-23	30-9-23	3-10-23	11-10-23	19-10-23	20-10-23
1.	Jadhav Sanika Tanaji	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2.	Patil Shruti Snajay	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3.	Zure Shruti Shankar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4.	Patil Pooja Ashok	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5.	Jadhav Varsha Ramdas	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6.	Bhosale Ashwini Vasantao	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7.	Jadhav Amruta Ravsaheb	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8.	Nagane Akanksha Hanmant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9.	Bhosale Sanika Dattatray	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10.	Salunkhe Snehal Uttam	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
11.	Jankar Yash Balkrushna	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12.	Shinde Pranav Murlidhar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3.	Naik Sachin Ganesh	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
f.	Kshirsagar Rutesh Ranesh	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	Patil Sudhir Pratap	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB

Aravam

Co. ordinator

SR

Head
Department of Zoology
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli.

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. II) Practical

Sr. No.	Name	3-8-23	8-8-23	11-8-23	14-8-23	23-8-23	31-8-23	2-9-23	9-9-23	15-9-23	20-9-23	04-10-23	6-10-23	10-10-23	14-10-23	23-10-23
1.	Jadhav Sanika Tanaji	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
2.	Patil Shruti Snajay	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3.	Zure Shruti Shankar	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
4.	Patil Pooja Ashok	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
5.	Jadhav Varsha Ramdas	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
6.	Bhosale Ashwini Vasant	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
7.	Jadhav Amruta Ravsaheb	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
8.	Nagane Akanksha Hanmant	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
9.	Bhosale Sanika Dattatray	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
10.	Salunkhe Snehal Uttam	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
11.	Jankar Yash Balkrushna	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
12.	Shinde Pranav Murlidhar	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
13.	Naik Sachin Ganesh	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
14.	Kshirsagar Rutesh Ganesh	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
15.	Patil Sudhir Pratap	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

[Signature]
Co-ordinator.

[Signature]
Head
Department of Zoology
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

15.

Mane Vishwajeet Santosh

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

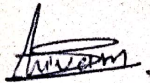
Vermicomposting

Date: 01-11-2023

NOTICE

All the enrolled students are informed that, the timetable for theory examination and practical examination of the course in "Vermicomposting" is as below,

Examination	Time
Theory and Practical	Tuesday 7 th November 2023 Theory- (10.00 a.m. to 11.00 a.m.) Practical- (12.00 p.m. to 03.00 p.m.)



Co-ordinator



Head

Head

Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli



SHIKSHAN PRASARAK SANSTHA'S
PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL
DEPARTMENT OF ZOOLOGY

C.O.C. Vermicomposting Theory Question Paper

Name of Student:

Day & Date:

Class:

Total Marks: 50

Que. Choose Correct Answer of the following.

1. The highly decomposed organic matter rich in minerals like nitrogen, phosphorus, and potassium, in particular, produced from the activity of earthworms is called _____.

- (a) Humus (b) Vermicompost (c) Worm casting (d) Compost bedding

2. Which of the following chemicals is used for protecting vermi-bed from ants?

- (a) DDT (b) Griseofulvin (c) Chloramphenicol (d) Chlorpyriophosphate

3. Vermicompost is used as a biofertilizer because it is rich in _____.

- (a) Calcium (b) Nitrogen (c) Phosphorus (d) All of the above

4. Which of the following are the best worms used for composting?

- (a) Maggots (b) Pink worms (c) Red wigglers (d) All of the above

5. The maximum temperature required for vermicomposting is _____.

- (a) 20⁰C to 25⁰C (b) 25⁰C to 30⁰C (c) 30⁰C to 35⁰C (d) 35⁰C to 40⁰C.

6. Which of the following is not raw material required for preparing composts?

- (a) Cow dung (b) Weed biomass (c) Dry straw and leaves (d) All of the above

7. The moisture level required for vermicomposting should be between _____.

- (a) Below 30 % (b) 40 and 50 % (c) 70 and 80 % (d) Above 90 %

8. Which of the following is not a drawback of vermicomposting?

- (a) Time-consuming process (b) Require regular monitoring
(c) Require minimum temperature (d) Enriches soil with microorganisms

9. Which of the following is true about vermicompost?

- (a) Vermicompost is red in colour (b) Vermicompost is black in colour
(c) Vermicompost is white in colour (d) Vermicompost is brown in colour

10. Which of the following products cannot be used for vermicomposting?

- (a) Cow dung (b) Plant materials (c) Animal Wastes (d) All of the above

11. Which of the following is not a major objective of Vermicomposting?

- a) To elevate the value of original material b) To accelerate the rate of degradation
c) To obtain toxic products d) To obtain products free of any pollutants

12. Which among the following is not a major reason for choosing earthworms for Vermicomposting?

- a) Low incubation time b) Digestion rate c) Adaptability d) Low growth rate

13. Which of the following species of earthworms is not suitable for Vermicomposting?

- a) Epifilis b) Endogens c) Aneciques d) Plasmodium

14. Which of the following species is most stable in Indian conditions?

- a) Perionyx b) Epifilis c) Endogens d) Aneciques

15. Earthworms subsidize to the burial of wastes?

- a) True b) False

16. Which of the following is not a method of worm cast harvesting or manufacturing?

- a) Homogenization b) Active feeding
- c) Drying under adequate light d) Separation of cocoons

17. What is the major advantage of three-tire vermi-culture technology?

- a) It can be applied to both solid and liquid wastes
- b) It cannot be applied to both solid and liquid wastes
- c) It involves chemical treatment
- d) It can degrade organic wastes

18. Meat involved in composting?

- a) Beetle b) Leech c) Snail d) Earthworm

19. Vermicomposting is a natural process of

- a) Producing compost b) Waste management creates it
- c) Producing worms d) Destroying worms

20. In earthworms, typhlosole is a

- a) Fold of intestine b) Formation of the circulatory system
- c) Defence mechanism d) Excretory structure

21. Which of the following is not the main reason for choosing Vermicomposting worms?

- a) Low incubation time b) Digestion rate c) Adaptability d) Low growth rate

22. Which of the following is a mixture of ingredients used to fertilize and improve the soil?

- a) Phosphatic fertilizers b) Mycelium c) Compost d) Alfa-alfa

23. Which of the following form the first layer of compost?

- a) Branches and twigs b) Leaves c) Grass clipping d) Kitchen scraps

24. What is the width of the second layer of compost?

- a) 4-6 inches b) 4-10 inches c) 6-10 inches d) 3-15 inches

25. What type of bin is best for vermicomposting?

- a) Plastic b) Wood c) Metal d) All of these

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Data Analysis using MS Excel

Practical Examination

Duration: 3 Hours

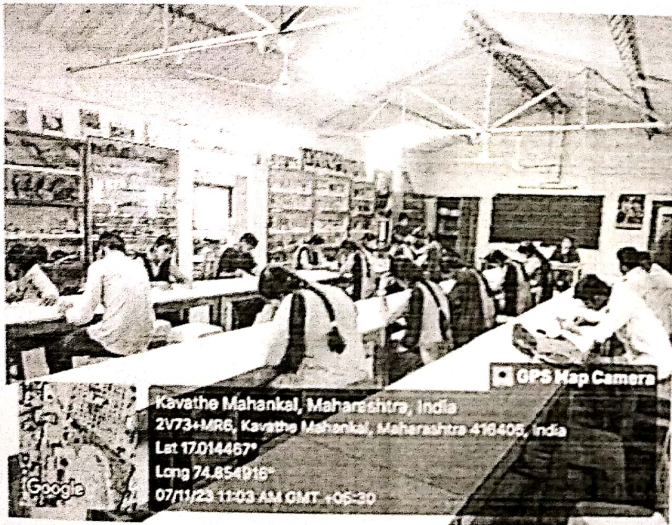
Total Marks :50

Instructions: 1) All questions are compulsory

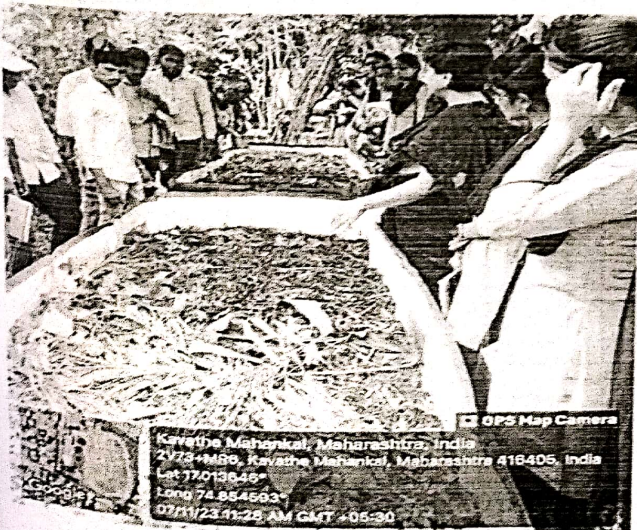
Que 1. Preparation of Vermibeds	20M
Que 2. Identification and release of earthworm species for preparation of vermicompost	10M
Que 3. Economic Importance of Vermicompost and Vermiwash	10M
Que 4. Viva voce	10M

Photos:

Theory Examination



Practical Examination



Padmabhushan Vasanthaodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

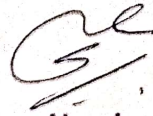
Data Analysis using MS Excel

Result

Sr. No	Name	Class	Marks			Remark
			Theory	Practical	Total	
1.	Jadhav Sanika Tanaji	B. Sc. II	44	46	90	O
2.	Patil Shruti Sanjay	B. Sc. II	AB	AB	AB	ABSENT
3.	Zure Shruti Shankar	B. Sc. II	38	42	80	A
4.	Patil Pooja Ashok	B. Sc. II	40	46	86	A
5.	Jadhav Varsha Ramdas	B. Sc. II	42	43	85	A
6.	Bhosale Ashwini Vasantao	B. Sc. II	44	45	89	A
7.	Jadhav Amruta Ravsaheb	B. Sc. II	42	46	88	A
8.	Nagane Akanksha Hanmant	B. Sc. II	42	44	86	A
9.	Bhosale Sanika Dattatrya	B. Sc. II	44	44	88	A
10.	Salunkhe Snehal Uttam	B. Sc. II	46	43	89	A
11.	Jankar Yash Balkrurushna	B. Sc. II	42	45	87	A
12.	Shinde Pranav Murlidhar	B. Sc. II	40	46	86	A
13.	Naik Sachin Ganesh	B. Sc. II	42	46	88	A
14.	Kshirsagar Rutesh Ganesh	B. Sc. II	44	43	87	A
15.	Patil Sudhir Pratap	B. Sc. II	38	47	85	A
16.	Patil Rutuja Ashok	B. Sc. III	46	48	94	O
17.	Salunkhe Sanika Kailas	B. Sc. III	44	47	91	O

18.	Phakade Pratibha Mohan	B. Sc. III	40	47	87	A
19.	Shirke Ashwini Shivaji	B. Sc. III	42	47	89	A
20.	Jadhav Pornima Sanjay	B. Sc. III	46	46	92	O
21.	Kharade Rupali Ramchandra	B. Sc. III	44	48	92	O
22.	Kshirsagar Anisha Anil	B. Sc. III	48	48	96	O
23.	Bhosale Sanika Sanjay	B. Sc. III	44	46	90	O
24.	Mane Rutuja Anil	B. Sc. III	38	46	84	A
25.	Bhosale Sandhyarani Amol	B. Sc. III	40	44	84	A
26.	Kambale Rohan Rajesh	B. Sc. III	36	45	81	A
27.	Kambale Shridhar Mohan	B. Sc. III	40	46	86	A
28.	Chavan Bhushan Rajendra	B. Sc. III	40	47	87	A
29.	Bansode Sagar Sambhaji	B. Sc. III	42	48	90	O
30.	Mane Vishwajeet Santosh	B. Sc. III	32	48	80	A

(*A – Satisfactory **O – Outstanding)



Head

**Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.**

CERTIFICATE

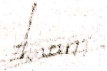



Shikshan Prasarak Sanstha's
Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal
Affiliated to Shivaji University, Kolhapur


DEPARTMENT OF ZOOLOGY

C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. _____ of
Class _____ has successfully completed the Short Term Career Oriented Certificate Course
entitled 'Vermicomposting', and secured grade _____ during the academic year 2023-24.


Course Co-Ordinator
Mr. S. P. Jaganade


Head
Department of ZOOLOGY
Prof. (Dr.) S. B. More


Acting Principal
Prof. (Dr.) M. K. Patil

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Report on Career Oriented Course in "Vermicomposting"

Title	Career Oriented Course in "Vermicomposting"
Duration	2 nd August 2023 to 30 th October 2023
Organizer	Department of Zoology, P.V.P. Mahavidyalaya Kavathe Mahankal
Funding	--
BOS / Faculty	Prof. Dr. Suvarna B. More Dr. Reshma A. Sanadi Mr. Shivam. P. Jaganade
Coordinator	Mr. Shivam. P. Jaganade
Background	Now a days, students must have some knowledge of Organic farming by using Organic manures like vermicompost. So this course is intended.
Objective	<ol style="list-style-type: none">1. To acquaint students with some basic concepts of Vermicomposting.2. To aware students about the importance of organic manure.3. To know the process of vermicomposting.
Outcomes	<ol style="list-style-type: none">1. To have basic knowledge of vermiculture, vermicomposting and vermiwash.2. To develop aptitude for scientific work and scientific ability to develop vermicompost.3. To aware the peoples of natural resources and environment.4. It helps to create organic manures which is useful to farmers for organic farming, by means of which it helps to provide healthy food and avoid pollution.

Conclusion	Students got sufficient knowledge about the vermitechnology, Preparation of vermicompost and vermiwash. It helps to community to reduce pollution and to got healthy future by organic farming and organic food. The course creates interest in students for preparation of vermicompost by using domestic waste and garbage from each community. “So Garbage is nothing but Gold. Thus this course is fruitful and motivational for participated students.
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Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

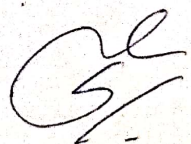
DEPARTMENT OF ZOOLOGY

Career Oriented Course in “Vermicomposting”

Brief Summary

Sr. No.	Organizing department	Department of Zoology		
		Male	Female	Total
1	Type of Activity	Career Oriented Course in “Vermicomposting”		
2	Duration of Activity	2 nd August 2023 to 31 st October 2023		
3	Venue	Department of Zoology		
4	Participation			
	Students			
	B. Sc. II	10	5	15
	B. Sc. III	10	5	15
	Total	20	10	30
5	Result	A-Grade	O-Grade	Total
	B. Sc. II	13	01	14
	B. Sc. III	07	08	15
	Total	20	9	29


Coordinator


Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli