



**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-II: Teaching Learning and Evaluation

### Key Indicator 2.3 Teaching Learning Process

**2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

### INDEX


## EXPERIENTIAL LEARNING ACTIVITIES

**ACADEMIC YEAR 2019-20 to 2023-24**

## SKILL & ENTREPRENEURSHIP DEVELOPMENT

Sr. No	Name of Activity	Period/ Date	No. of Participant	Organizing Department	Page Number
1.	Vermicomposting	7/8/2023 to 23/10/2023	30	Zoology	2-30
2.	Career Oriented Course in Nursery Management	1/8/2023 to 21/10/2023	35	Botany	31-97
3.	Identification & Uses of Medicinal Plants	10/1/2023 to 10/4/2023	37	Botany	98-168



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

**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".

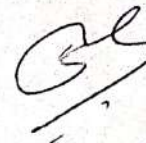
Respected sir,

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.**

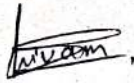
**Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.**

**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 31<sup>st</sup> July, 2023.



**Coordinator**



**Head**

**Head**

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

Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

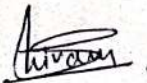
**DEPARTMENT OF ZOOLOGY**

**Vermicomposting**

Date: 01-08-2023

**NOTICE**

All the enrolled students are hereby informed that, the lectures of the course will be started from 2<sup>nd</sup> 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 Vasantrodada Patil Mahavidyalaya Kavathe Mahankal**

To have basic knowledge of vermiculture, vermicomposting and vermiwash

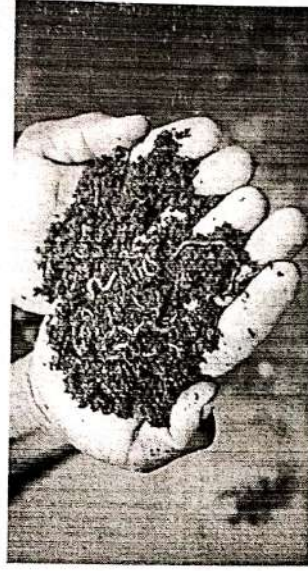


It helps to create organic manures which is useful to farmers for organic farming, by means of which it helps to provide healthy food and avoid pollution

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


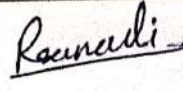

Aware students about the importance of organic manure.

Padmabhushan Vasantrodada 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 Vasanttraodada 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

*[Signature]*

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
5.	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	04-10-23	6-10-23	10-10-23	14-10-23	23-10-23
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	AD	Present	Present	Present	Present	Present	Present	Present	Present	Present
11.	Kambale Rohan Rajesh	Present	Present	AD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12.	Kambale Shridhar Mohan	Present	Present	AD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13.	Chavan Bhushan Rajendra	Present	Present	Present	Present	AD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14.	Bansode Sagar Sambhaji	AD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15.	Mane Vishwajeet Santosh	Present	AD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

*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 Vasant	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
4.	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	8-9-23	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 Vasantrodada 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 <sup>th</sup> 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) 20<sup>0</sup>C to 25<sup>0</sup>C (b) 25<sup>0</sup>C to 30<sup>0</sup>C (c) 30<sup>0</sup>C to 35<sup>0</sup>C (d) 35<sup>0</sup>C to 40<sup>0</sup>C.

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 Vasantnandada 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	<b>20M</b>
Que 2. Identification and release of earthworm species for preparation of vermicompost	<b>10M</b>
Que 3. Economic Importance of Vermicompost and Vermiwash	<b>10M</b>
Que 4. Viva voce	<b>10M</b>

Photos:

### Theory Examination



### Practical Examination



Padmabhushan Vasanttraodada 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 Vasanttrao	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

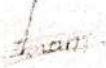


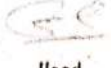
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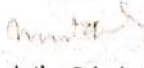
### DEPARTMENT OF ZOOLOGY

## 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"

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

<b>Conclusion</b>	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. <b>“So Garbage is nothing but Gold.</b> Thus this course is fruitful and motivational for participated students.
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Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

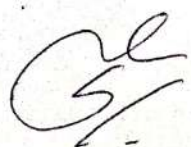
## DEPARTMENT OF ZOOLOGY

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 <sup>nd</sup> August 2023 to 31 <sup>st</sup> 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

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 <sup>st</sup> August 2023 to 21 <sup>st</sup> 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"><li>❖ The main objective of the nursery is to grow plants in an open environment.</li><li>❖ To maintain a good quality of plants and protect the plants from pests and diseases.</li><li>❖ It was the responsibility of the commercial nursery growers to develop good quality of plants for their customers.</li></ul>
Outcomes	<ul style="list-style-type: none"><li>❖ To gain some basic knowledge different plant species and how the seedlings are grown.</li><li>❖ To know about the different horticultural techniques, plant propagation techniques.</li><li>❖ To know about selling and packing of plantlets.</li><li>❖ To aware about different problems when creating a good nursery.</li></ul>
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.

  
**PRINCIPAL**  
Padmabhushan Vasantraodada Patil  
Mahavidyalaya, K. Mahankal, Dist. Sangli

Padmabhushan Vasanttraodada 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 <sup>st</sup> August 2023 to 21 <sup>st</sup> 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 Vasanttraodada 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 31<sup>st</sup> July, 2023.

  
Course Coordinator

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

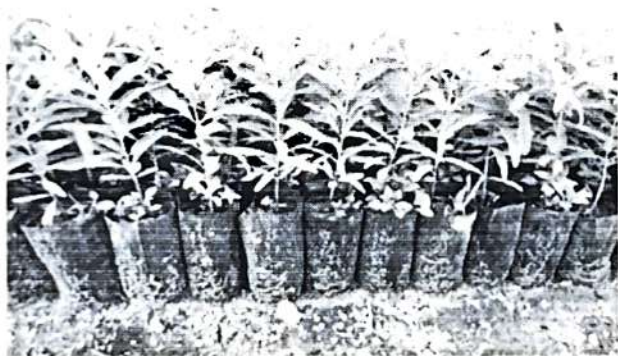
## Brochure

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


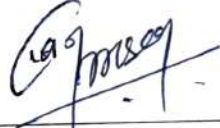


Contact us on:  
Mob No. 9822495288

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

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

**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 01<sup>st</sup> August to 20<sup>th</sup> 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 **1<sup>st</sup> 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 Vasanttraodada 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 Shrirang	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

**Padmabhushan Vasant Rao Dada Patil Mahavidyalaya, Kavathe Mahankal**  
**DEPARTMENT OF BOTANY**

**Nursery Management**  
**Theory Attendance**

Sr. No.	Date	Student Name																															
			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			
1	* Mali Sayee Ganesh	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	Amali	
2	* Patil Sanika Machindra	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	Ampani	
3	Chavan Amit Vinayak	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	Amit	
4	Chougule Ganesh Rajaram	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	
5	* Patil Minal Kumar	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal	Minal
6	* Koshti Shraddha Shrikant	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	
7	* Kadam Snehal Dadaso	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal

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	
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	11/09/2023	
	12/09/2023	
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	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																													
			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	
16.	* Mane Snehal Sanjay																														
17	* Shinde Vaishnavi Shivaji																														
18	* Vhanmane Pooja Vilas																														
19	* Harage Pooja Sanjay																														
20	* Vhanmane Aarti Vilas																														
21	* Limkar Vaibhavi Balasaheb																														
22	* Kamble Vaishnavi Pradhan																														
23	* Banasode Shruti Roshan																														

Sr. No.	Student Name	Date
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	

Sr. No.	Student Name	Date	
31.	Patil Dhiraj Dattatray	<del>Patil</del>	01/08/2023
		<del>Patil</del>	02/08/2023
		<del>Patil</del>	07/08/2023
		<del>Patil</del>	08/08/2023
		<del>Patil</del>	09/08/2023
		<del>Patil</del>	14/08/2023
		<del>Patil</del>	21/08/2023
		<del>Patil</del>	22/08/2023
		<del>Patil</del>	23/08/2023
		<del>Patil</del>	28/08/2023
		<del>Patil</del>	29/08/2023
		<del>Patil</del>	30/08/2023
		<del>Patil</del>	04/09/2023
		<del>Patil</del>	05/09/2023
		<del>Patil</del>	06/09/2023
		<del>Patil</del>	11/09/2023
		<del>Patil</del>	12/09/2023
32.	Kumbhar Suyog Jotiram	<del>GTK</del>	01/08/2023
		<del>GTK</del>	02/08/2023
		<del>GTK</del>	07/08/2023
		<del>GTK</del>	08/08/2023
		<del>GTK</del>	09/08/2023
		<del>GTK</del>	14/08/2023
		<del>GTK</del>	21/08/2023
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		<del>GTK</del>	04/09/2023
		<del>GTK</del>	05/09/2023
		<del>GTK</del>	06/09/2023
		<del>GTK</del>	11/09/2023
		<del>GTK</del>	12/09/2023
33.	Shinde Chaitanya	<del>Shinde</del>	01/08/2023
		<del>Shinde</del>	02/08/2023
		<del>Shinde</del>	07/08/2023
		<del>Shinde</del>	08/08/2023
		<del>Shinde</del>	09/08/2023
		<del>Shinde</del>	14/08/2023
		<del>Shinde</del>	21/08/2023
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		<del>Shinde</del>	23/08/2023
		<del>Shinde</del>	28/08/2023
		<del>Shinde</del>	29/08/2023
		<del>Shinde</del>	30/08/2023
		<del>Shinde</del>	04/09/2023
		<del>Shinde</del>	05/09/2023
		<del>Shinde</del>	06/09/2023
		<del>Shinde</del>	11/09/2023
		<del>Shinde</del>	12/09/2023
34.	*Desai Rutuja Appa	<del>Roesai</del>	01/08/2023
		<del>Roesai</del>	02/08/2023
		<del>Roesai</del>	07/08/2023
		<del>Roesai</del>	08/08/2023
		<del>Roesai</del>	09/08/2023
		<del>Roesai</del>	14/08/2023
		<del>Roesai</del>	21/08/2023
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		<del>Roesai</del>	28/08/2023
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		<del>Roesai</del>	30/08/2023
		<del>Roesai</del>	04/09/2023
		<del>Roesai</del>	05/09/2023
		<del>Roesai</del>	06/09/2023
		<del>Roesai</del>	11/09/2023
		<del>Roesai</del>	12/09/2023
35.	*Kalekar Anushka Ramchandra	<del>ARK</del>	01/08/2023
		<del>ARK</del>	02/08/2023
		<del>ARK</del>	07/08/2023
		<del>ARK</del>	08/08/2023
		<del>ARK</del>	09/08/2023
		<del>ARK</del>	14/08/2023
		<del>ARK</del>	21/08/2023
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		<del>ARK</del>	23/08/2023
		<del>ARK</del>	28/08/2023
		<del>ARK</del>	29/08/2023
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		<del>ARK</del>	04/09/2023
		<del>ARK</del>	05/09/2023
		<del>ARK</del>	06/09/2023
		<del>ARK</del>	11/09/2023
		<del>ARK</del>	12/09/2023

**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
		1	* Mali Sayee Ganesh	Mali	Mali	Mali
2	* Patil Sanika Machindra	Sanika Patil	Sanika Patil	Sanika Patil	Sanika Patil	Sanika Patil
3	Chavan Amit Vinayak	Amit	Amit	Amit	Amit	Amit
4	Chougule Ganesh Rajaram	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
5	* Patil Minal Kumar	M Patil	M Patil	M Patil	M Patil	M Patil
6	* Koshti Shraddha Shrikant	S Shrikant	S Shrikant	S Shrikant	S Shrikant	S Shrikant
7	* Kadam Snehal Dadaso	Snehal	Snehal	Snehal	Snehal	Snehal
8	* Bedage Sakshi Sanjay	S Bedage	S Bedage	S Bedage	S Bedage	S Bedage
9	* Bedage Aishwarya Dattatray	A Bedage	A Bedage	A Bedage	A Bedage	A Bedage
10	* Patil Pratiksha Hitendra	P Patil	P Patil	P Patil	P Patil	P Patil
11	* Shinde Pranali Baban	P Shinde	P Shinde	P Shinde	P Shinde	P Shinde
12	* Kadam Namrata Balaso	N Kadam	N Kadam	N Kadam	N Kadam	N Kadam
13	* Kadam Sayali Sandip	S.S. Kadam	S.S. Kadam	S.S. Kadam	S.S. Kadam	S.S. Kadam
14	* Borkar Renuka Suresh	R.S. Borkar	R.S. Borkar	R.S. Borkar	R.S. Borkar	R.S. Borkar
15	* Mane Sanika Subhash	S.S. Mane	S.S. Mane	S.S. Mane	S.S. Mane	S.S. Mane
16	* Mane Snehal Sanjay	S Mane	S Mane	S Mane	S Mane	S Mane
17	* Shinde Vaishnavi Shivaji	V Shinde	V Shinde	V Shinde	V Shinde	V Shinde

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>Limkar</u>	<u>Limkar</u>	<u>Limkar</u>	<u>Limkar</u>	<u>Limkar</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 Bhausahab	<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>Masal</u>	<u>Masal</u>	<u>Masal</u>	<u>Masal</u>	<u>Masal</u>
27	* Mane Dipika Raju	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>
28	Gaikwad Ritesh Laxman	<u>Gaikwad</u>	<u>Gaikwad</u>	<u>Gaikwad</u>	<u>Gaikwad</u>	<u>Gaikwad</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>Mali</u>	<u>Mali</u>
2	* Patil Sanika Machindra	<u>Patil</u>	<u>Patil</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>Patil</u>	<u>Patil</u>
6	* Koshti Shraddha Shrikant	<u>Koshti</u>	<u>Koshti</u>
7	* Kadam Snehal Dadaso	<u>Kadam</u>	<u>Kadam</u>
8	* Bedage Sakshi Sanjay	<u>Bedage</u>	<u>Bedage</u>
9	* Bedage Aishwarya Dattatray	<u>Bedage</u>	<u>Bedage</u>
10	* Patil Pratiksha Hitendra	<u>Patil</u>	<u>Patil</u>
11	* Shinde Pranali Baban	<u>Shinde</u>	<u>Shinde</u>
12	* Kadam Namrata Balaso	<u>Kadam</u>	<u>Kadam</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>Mane</u>	<u>Mane</u>
18	* Shinde Vaishnavi Shivaji	<u>Shinde</u>	<u>Shinde</u>
19	* Vhanmane Pooja Vilas	<u>Pvt</u>	<u>Pvt</u>

Sr. No.	Date	Theory 20/04/23	Practical 21/04/23
	Student Name		
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>VK</u>	<u>VK</u>
23	* Banasode Shruti Roshan	<u>SRB</u>	<u>SRB</u>
24	Deshmukh Pratapsinh Bhausahab	<u>DS</u>	<u>DS</u>
25	Mali Namdev Dadasahab	<u>DM</u>	<u>DM</u>
26	Masal Rupesh Shivaji	<u>RS</u>	<u>RS</u>
27	* Mane Dipika Raju	<u>DM</u>	<u>DM</u>
28	Gaikwad Ritesh Laxman	<u>RL</u>	<u>RL</u>
29	Khot Pradip Shrirang	<u>PK</u>	<u>PK</u>
30	Jadhav Mahesh Shivshankar	<u>M.S. Jadhav</u>	<u>M.S. Jadhav.</u>
31	Patil Dhiraj Dattatray	<u>PD</u>	<u>PD.</u>
32	Kumbhar Suyog Jotiram	<u>SK</u>	<u>SK</u>
33	Shinde Chaitanya	<u>CS</u>	<u>CS.</u>
34	*Desai Rutuja Appa	<u>RD</u>	<u>RD</u>
35	*Kalekar Anushka Ramchandra	<u>AK</u>	<u>AK</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 Vasant Rao Dada 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,

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

  
Co-ordinator

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

Padmabhushan Vasandraodada Patil Mahavidyalaya, Kavathe Mahankal.

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) 28<sup>th</sup> February      b) 5<sup>th</sup> June      c) 7<sup>th</sup> August      d) 10<sup>th</sup> 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 as .....test.  
 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  
 P.V.P. Mahavidyalaya  
 Kavathe Mahankal

**PadmabhushanVasatraodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF BOTANY**

**Nursery Management**

**Practical Examination**

**Date: 21/10/2023**

**Marks: 30**

**Time: 2:30pm to Onwards**

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- 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 Bhousaheb	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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**P.V.P. Mahavidyalaya**  
**Kavathe Mahankal Dist-Sangli**



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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  
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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.

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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.

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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.

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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  
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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.

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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.

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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.

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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.

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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.

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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  
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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.

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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.

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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.

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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.

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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  
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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  
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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  
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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.

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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.

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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.

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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.

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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 Bhausahab* 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.

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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.

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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.

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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.

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## 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.

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## C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Khote 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  
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## 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

Shikshan Prasarak Sanstha's  
**Padmabhushan Vasantrodada Patil Mahavidyalaya**



Kavathe Mahankal , Sangli  
Affiliated to Shivaji University, Kolhapur

**Career Oriented Course**

*A Career Oriented Course  
in Identification and Uses of Medicinal Plants*

Prepared by

**Department of Botany**

**Padmabhushan Vasantrodada Patil Mahavidyalaya**

Kavathe Mahankal 416405

## DEPARTMENT OF BOTANY

### Report on Career Oriented Course in "Identification and Uses of Medicinal Plants"

Title	Career Oriented Course in "Identification and Uses of Medicinal Plants"
Duration	10 <sup>th</sup> January 2023 to 10 <sup>th</sup> April 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	Now days we should conduct a massive campaign to create awareness on importance of medicinal plants. The medicinal plant awareness programme carried out on student level can be more effective. So this course is intended.
Objective	<ul style="list-style-type: none"> <li>❖ To identify medicinal plants.</li> <li>❖ To create optimum awareness and interest amongst students for medicinal plants.</li> <li>❖ To conserve the biodiversity of medicinal plants.</li> <li>❖ To develop awareness for utilization of herbal medicine for home remedy.</li> </ul>
Outcomes	<ul style="list-style-type: none"> <li>❖ To gain some basic knowledge of medicinal plants and how the medicinal plants are identified.</li> <li>❖ To have the skill of field work and understand the importance of field work.</li> <li>❖ To have knowledge about the collection and preservation techniques of medicinal plants.</li> <li>❖ To know about medicinal plant diversity, ancient medicinal systems and local healthcare.</li> </ul>
Conclusion	Students got sufficient knowledge about medicinal plants and there uses. Course creates awareness about to conservation of medicinal plants. Thus this course is helpful and motivational for participated students.



**Acting Principal**

Padmashushan Vasantnandada Patil  
Mahavidyalaya, Mahankal Dist-Sarg.

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

**DEPARTMENT OF BOTANY**

Report on Career Oriented Course in "Identification and Uses of Medicinal Plants"

**Brief Summary**

Sr. No.	Organizing department	Department of Botany			
1	Type of Activity	Career Oriented Course in "Identification and Uses of Medicinal Plants"			
2	Duration of Activity	10 <sup>th</sup> January 2023 to 10 <sup>th</sup> April 2023			
3	Venue	Botany Lab, Department of Botany			
4	Participation				
	Students	Male	Female	Total	
	B. Sc. III & B. Sc. II	05	32	37	
5	Result	A-Grade	B-Grade	C-Grade	Total
	B. Sc. III & B. Sc. II	37	0	0	37

  
Coordinator

  
Acting Principal  
Padmabhushan Vasantraodada Patil  
Mahavidyalaya, Kavathe Mahankal, Dist-Sangli

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

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## Department of Botany

Head of Department,  
Department of Botany  
P. V. P. Mahavidyalaya,  
KavatheMahankal, Dist. Sangli,  
Maharashtra 416405  
Date: 03/01/2023

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

**Subject:** Seeking a permission to start the career-oriented course in  
"Identification and Uses of Medicinal Plants".

Respected sir,

As per your guidelines we are going to start a career oriented course in "Identification and Uses of Medicinal Plants" in Department of Botany for our college students. This course will be of 48 hours and will be completed during January 2023 to April 2023. The course will be definitely very beneficiary for students.

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

Thanking you.

*Permission granted.*

*Murad*

**Acting Principal**  
Padmabhushan Vasantodada Patil  
Mahavidyalaya, KavatheMahankal, Dist. Sangli

Yours faithfully,

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

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


**DEPARTMENT OF BOTANY**

Date: 03-10-2022

**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 "Identification and uses of Medicinal Plants". The interested students are requested to enroll upto 10<sup>th</sup> January, 2023.

  
Course Coordinator

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

# 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 Identification and Uses of Medicinal Plants*

Starting From 10 January 2023

**Specifications:**

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

**Join Now**



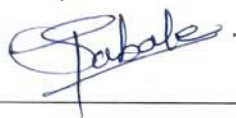

Contact us on:  
Mob No. 9822495288

**PadmabhushanVasatraodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

**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	



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

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

Medicinal plants are considered as rich resources of ingredients which can be used in drug development either pharmacopial, non-pharmacopial or synthetic drugs. The plants that possess therapeutic properties beneficial pharmacological effects on the animal and human body are generally designated as medicinal plants. The plants serve as therapeutic agents as well as important raw materials for manufacture of traditional and modern medicine. In India the use of different parts of several medicinal plants to cure specific ailments from ancient time. The indigenous system of medicine namely Ayurvedic, Siddha, Buddha and Unani have been in existence for several centuries. But today we avoid the medicinal plants and accept the new pharmaceutical and synthetic medicinal practices which are not beneficial for human body. The pharmaceutical and synthetic medicine made some side effects on our body.

Now days we should conduct a massive campaign to create awareness on importance of medicinal plants. The medicinal plant awareness programme carried out on student level can be more effective, so in this awareness programme our institute starting a carrier oriented course in Identification and Uses of Medicinal Plants for students.

**Aims and Objectives:**

- ❖ To identify medicinal plants.
- ❖ To create optimum awareness and interest amongst students for medicinal plants.
- ❖ To conserve the biodiversity of medicinal plants.
- ❖ To develop awareness for utilization of herbal medicine for home remedy.

**Duration:**

The course will be completed in 50 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 of medicinal plants and how the medicinal plants are identified.
- ❖ To have the skill of field work and understand the importance of field work.
- ❖ To know about the collection and preservation techniques of medicinal plants.
- ❖ To know about medicinal plant diversity, ancient medicinal systems and local healthcare.

### **Evaluation Method:**

All the students will be continuously evaluated by,

1. Internal evaluation	10M
2. Theory examination	50 M
3. Practical examination	30 M
4. Oral	10M
<hr/>	
	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 (50 Hours)

Syllabus - Theory (32 Hours)

### Unit: 1 – Introduction to Medicinal Plants

11L

- 1.1 – Definition, History, Importance and Future Prospects
- 1.2 – Past and Present Status
- 1.3 – Medicinal Plant Diversity and Local Healthcare
- 1.4 – Medicinal Plant Conservation- issues and approaches
- 1.5 – Data Collection and representation

### Unit: 2 – Medicinal Plants I

07L

- 2.1 – A brief account of following medicinal plants, their constituents used in indigenous system and their uses. Root: *Withania somnifera*, *Asparagus racemosus*
- 2.2 – Rhizome: *Zingiber officinale*, *Curcuma longa*
- 2.3 – Stem: *Tinospora cordifolia*, *Plumbago zeylanica*, *Azadirachta indica*
- 2.4 – Bark: *Cinnamomum verum*

### Unit: 3 – Medicinal Plants II

07L

- 3.1 - A brief account of following medicinal plants, their constituents used in indigenous system and their uses. Leaf: *Aloe vera*, *Justicia adhatoda*, *Tridax procumbens*, *Tribulus terrestris*, *Calotropis gigantia*, *Piper betle*
- 3.2 – Flower bud: *Syzygium aromaticum*
- 3.3 – Flower: *Hibiscus rosa-sinensis*, *Rosa indica*, *Tagetes erecta*

### Unit: 4 – Medicinal Plants III

07L

- 4.1 - A brief account of following medicinal plants, their constituents used in indigenous system and their uses. Fruit: *Aegle marmelos*, *Annona squamosa*, *Citrus medica*, *Terminalia arjuna*, *Emblica officinalis*
- 4.2 – Seed: *Abrus precatorius*, *Bixa orellana*, *Jatropha curcus*, *Trigonella foenum-graecum*

## Practical (18 Hours)

1. Study of exomorphic characters: Study of stem, root, leaf, inflorescence, flower, fruit, and seed of any two medicinal plants.
2. Macroscopic and organoleptic evaluation of *Kalancho*, *Acorus*, *Syzygium cumini*, *Piper nigrum*
3. Microscopic evaluation of *Ficus*, *Foeniculum vulgare*.
4. Herbal preparation – Ointment.
5. Ethnobotanical study of *Santalum album* and *Morinda citrifolia*.
6. Taxonomical identification of medicinal plants.

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

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**PadmabhushanVasatraodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

**TIMETABLE**

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

- The time of theory lectures will be 9:30am to 10:30am in Botany department.
- The time for practical will be 8:00am to 11:00am in Botany laboratory.
- This lecture schedule is followed from 10<sup>th</sup> January to 10<sup>th</sup> April in second semester.

  
Course Co-ordinator

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

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

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

**Notice**

Date: 07-01-2023

All the enrolled students are informed that, the lectures and practicals of the course will be started from **10<sup>th</sup> January** as per timetable. All the lectures and practical's will be conducted in Botany department.

  
Course Coordinator

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

**Padmabhushan Vasanthaodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

**Admission List**

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Roll No.</b>
1	Athavale Pramodini Savant	B01
2	Bandgar Sarika Birbal	B02
3	Bhosale Sandhyarani Amol	B03
4	Bhusnar Snehal Namdev	B04
5	Choudhary Geeta Dayaram	B05
6	Deshinge Aditi Maruti	B06
7	Devkate Payal Balaso	B07
8	Dudhal Ratan Savanta	B08
9	Jadhav Tejashri Raosaheb	B09
10	Jagtap Prajakta Yashwant	B10
11	Jagtap Tejaswini Bharat	B11
12	Karande Rutuja Virendra	B12
13	Kolekar Pranali Rajendra	B13
14	Mangave Aishwarya Pravin	B14
15	Mulani Sharmin Shoukat	B15
16	Nikam Gayatri Mohan	B16
17	Patil Pranali Laxman	B17
18	Patil Rutuja Ashok	B18
19	Patil Rutuja Shankar	B19
20	Patil Sonal Shrikant	B20
21	Patil Supriya Vijay	B21
22	Patil Swapnali Uttam	B22
23	Pawar Kiran Tanaji	B23
24	Pawar Nikita Laxman	B24
25	Salunkhe Sanika Kailas	B25
26	Sapkal Rahul Gajanan	B26
27	Savale Sakshi Arun	B27
28	Shejal Sayajirao Laxman	B28

29	Shinde Digamber Sambhaji	B29
30	Shinde Shailaja Dilip	B30
31	Sonavane Pooja Shrikant	B31
32	Surwanshi Pratiksha Ajayraj	B32
33	Suryawanshi Nilima Ganpatrao	B33
34	Suryawanshi Rutuja Ramchandra	B34
35	Sutar Nikita Nivrutti	B35
36	Waghmare Aditya Dagadu	B36
37	Yamgar Pooja Tatoba	B37



**Head**  
**Department of Botany**  
**P.V.P. Mahavidyalaya**  
**Kavathe Mahankai Dist-Sangli**

**Padmabhushan Vasanturadada Patil Mahavidyalaya, Kavathe Mahankal**  
**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**  
**Theory Attendance**

Sr. No.	Student Name	Date																																			
		11/01/23	16/01/23	17/01/23	18/01/23	23/01/23	24/01/23	25/01/23	31/01/23	01/02/23	06/02/23	07/02/23	08/02/23	13/02/23	14/02/23	15/02/23	20/02/23	21/02/23	22/02/23	27/02/23	28/02/23	01/03/23	06/03/23	13/03/23	14/03/23	15/03/23	20/03/23	21/03/23	27/03/23	28/03/23	29/03/23	03/04/23	05/04/23				
1	Athavale Pramodini Savant	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	
2	Bandgar Sarika Birbal	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	
3	Bhosale Sandhyarani Amol	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	Bhusnar Snehal Namdev	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	Choudhary Geeta Dayaram	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	Deshinge Aditi Maruti	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	Devkate Payal Balaso	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

Sr. No.	Student Name	Date	
8.	Dudhal Ratan Savanta		11/01/23
			16/01/23
9.	Jadhav Tejashri Raosaheb		17/01/23
			18/01/23
10.	Jagtap Prajakta Yashwant		23/01/23
			24/01/23
11.	Jagtap Tejaswini Bharat		25/01/23
			31/01/23
12.	Karande Rutuja Virendra		01/02/23
			06/02/23
13.	Kolekar Pranali Rajendra		07/02/23
			08/02/23
14.	Mangave Aishwarya Pravin		13/02/23
			14/02/23
15.	Mulani Sharmin Shoukat		15/02/23
			20/02/23
8.	Dudhal Ratan Savanta		21/02/23
			22/02/23
9.	Jadhav Tejashri Raosaheb		27/02/23
			28/02/23
10.	Jagtap Prajakta Yashwant		01/03/23
			06/03/23
11.	Jagtap Tejaswini Bharat		13/03/23
			14/03/23
12.	Karande Rutuja Virendra		15/03/23
			20/03/23
13.	Kolekar Pranali Rajendra		21/03/23
			27/03/23
14.	Mangave Aishwarya Pravin		28/03/23
			29/03/23
15.	Mulani Sharmin Shoukat		03/04/23
			05/04/23

Sr. No.	Student Name	Date	
16.	Nikam Gayatri Mohan		11/01/23
			16/01/23
17.	Patil Pranali Laxman		17/01/23
			18/01/23
18.	Patil Rutuja Ashok		23/01/23
			24/01/23
19.	Patil Rutuja Shankar		25/01/23
			31/01/23
20.	Patil Sonal Shrikant		01/02/23
			06/02/23
21.	Patil Supriya Vijay		07/02/23
			08/02/23
22.	Patil Swapnali Uttam		13/02/23
			14/02/23
23.	Pawar Kiran Tanaji		15/02/23
			20/02/23
			21/02/23
			22/02/23
			27/02/23
			28/02/23
			01/03/23
			06/03/23
			13/03/23
			14/03/23
			15/03/23
			20/03/23
			21/03/23
			27/03/23
			28/03/23
			29/03/23
			03/04/23
			05/04/23



Sr. No.	Student Name	Date
		11/01/23
16/01/23		
17/01/23		
18/01/23		
23/01/23		
24/01/23		
25/01/23		
31/01/23		
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27/03/23		
28/03/23		
29/03/23		
03/04/23		
05/04/23		

Head

Department of Botany  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli

Padmabhushan Vasantrodada Patil Mahavidyalaya, KavatheMahankal.

DEPARTMENT OF BOTANY

Identification and Uses of Medicinal Plants

Practical Attendance

Sr. No.	Date Student Name	12/01/23	27/01/23	03/02/23	17/02/23	03/03/23	24/03/23
		1	Athavale Pramodini Savant	<u>Pam.</u>	<u>Pam.</u>	<u>Pam.</u>	<u>Pam.</u>
2	Bandgar Sarika Birbal	<u>Sarandgar</u>	<u>Sarandgar</u>	<u>Sarandgar</u>	<u>Sarandgar</u>	<u>Sarandgar</u>	<u>Sarandgar</u>
3	Bhosale Sandhyarani Amol	<u>Sahosale...</u>	<u>Sahosale...</u>	<u>Sahosale...</u>	<u>Sahosale...</u>	<u>Sahosale...</u>	<u>Sahosale...</u>
4	Bhusnar Snehal Namdev	<u>SNB</u>	<u>SNB</u>	<u>SNB</u>	<u>SNB</u>	<u>SNB</u>	<u>SNB</u>
5	Choudhary Geeta Dayaram	<u>Geeta</u>	<u>Geeta</u>	<u>Geeta</u>	<u>Geeta</u>	<u>Geeta</u>	<u>Geeta</u>
6	Deshinge Aditi Maruti	<u>Aditi</u>	<u>Aditi</u>	<u>Aditi</u>	<u>Aditi</u>	<u>Aditi</u>	<u>Aditi</u>
7	Devkate Payal Balaso	<u>Bdevakate</u>	<u>Bdevakate</u>	<u>Bdevakate</u>	<u>Bdevakate</u>	<u>Bdevakate</u>	<u>Bdevakate</u>
8	Dudhal Ratan Savanta	<u>Dudhal</u>	<u>Dudhal</u>	<u>Dudhal</u>	<u>Dudhal</u>	<u>Dudhal</u>	<u>Dudhal</u>
9	Jadhav Tejashri Raosaheb	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>
10	Jagtap Prajakta Yashwant	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>
11	Jagtap Tejaswini Bharat	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>	<u>Jagtap</u>
12	Karande Rutuja Virendra	<u>RVK</u>	<u>RVK</u>	<u>RVK</u>	<u>RVK</u>	<u>RVK</u>	<u>RVK</u>
13	Kolekar Pranali Rajendra	<u>PRK</u>	<u>PRK</u>	<u>PRK</u>	<u>PRK</u>	<u>PRK</u>	<u>PRK</u>
14	Mangave Aishwarya Pravin	<u>Aish.</u>	<u>Aish.</u>	<u>Aish.</u>	<u>Aish.</u>	<u>Aish.</u>	<u>Aish.</u>
15	Mulani Sharmin Shoukat	<u>SMMS</u>	<u>SMMS</u>	<u>SMMS</u>	<u>SMMS</u>	<u>SMMS</u>	<u>SMMS</u>
16	Nikam Gayatri Mohan	<u>Gnikam</u>	<u>Gnikam</u>	<u>-AB-</u>	<u>Gnikam</u>	<u>Gnikam</u>	<u>Gnikam</u>
17	Patil Pranali Laxman	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>

Sr. No.	Date Student Name	12/01/23	27/01/23	03/02/23	17/02/23	03/03/23	24/03/23
		18	Patil Rutuja Ashok	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>
19	Patil Rutuja Shankar	Pspn	Pspn	Pspn	Pspn	Pspn	Pspn
20	Patil Sonal Shrikant	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>
21	Patil Supriya Vijay	<del>ABRATI</del>	<del>ABRATI</del>	<del>ABRATI</del>	<del>ABRATI</del>	<del>ABRATI</del>	<del>ABRATI</del>
22	Patil Swapnali Uttam	<u>SUPATI</u>	<u>SUPATI</u>	<u>SUPATI</u>	<u>SUPATI</u>	<u>SUPATI</u>	<u>SUPATI</u>
23	Pawar Kiran Tanaji	KTP	KTP	KTP	KTP	KTP	KTP
24	Pawar Nikita Laxman	Pn	Pn	Pn	Pn	Pn	Pn
25	Salunkhe Sanika Kailas	<del>Kalunkhe</del>	<del>Kalunkhe</del>	<del>Kalunkhe</del>	<del>Kalunkhe</del>	<del>Kalunkhe</del>	<del>Kalunkhe</del>
26	Sapkal Rahul Gajanan	Pes	Pes	Pes	Pes	Pes	Pes
27	Savale Sakshi Arun	SA	SA	SA	SA	SA	SA
28	Shejal Sayajirao Laxman	Psn	Psn	Psn	Psn	Psn	Psn
29	Shinde Digamber Sambhaji	Seel	Seel	Seel	Seel	Seel	Seel
30	Shinde Shailaja Dilip	SIS	SIS	SIS	SIS	SIS	SIS
31	Sonavane Pooja Shrikant	PSS	PSS	PSS	PSS	PSS	PSS
32	Survanshi Pratiksha A.	PA	PA	PA	PA	-AB-	PA
33	Suryawanshi Nilima G.	SuryN.	SuryN.	SuryN.	SuryN.	SuryN.	-SuryN..
34	Suryawanshi Rutuja R.	Pn	Pn	Pn	Pn	Pn	Pn
35	Sutar Nikita Nivrutti	<del>Datar</del>	<del>Datar</del>	<del>Datar</del>	<del>Datar</del>	<del>Datar</del>	<del>Datar</del>
36	Waghmare Aditya Dagadu	Adw.	Adw.	Adw.	Adw.	Adw.	-AB-
37	Yamgar Pooja Tatoba	<del>PKhel</del>	<del>PKhel</del>	<del>PKhel</del>	<del>PKhel</del>	<del>PKhel</del>	<del>PKhel</del>

  
 Head

**Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.**  
**DEPARTMENT OF BOTANY**  
**Identification and Uses of Medicinal Plants**  
**Exam Attendance**

Sr. No.	Date Student Name	Theory	Practical
		20/04/23	21/04/23
1	Athavale Pramodini Savant	<u>Pule</u>	<u>Pule</u>
2	Bandgar Sarika Birbal	<u>Sbandgar</u>	<u>Sbandgar</u>
3	Bhosale Sandhyarani Amol	<u>Bhosale</u>	<u>Bhosale</u>
4	Bhusnar Snehal Namdev	<u>SNB</u>	<u>SNB</u>
5	Choudhary Geeta Dayaram	<u>Geeta</u>	<u>Geeta</u>
6	Deshinge Aditi Maruti	<u>Aditi</u>	<u>Aditi</u>
7	Devkate Payal Balaso	<u>Bdevkate</u>	<u>Bdevkate</u>
8	Dudhal Ratan Savanta	<u>Dudhal</u>	<u>Dudhal</u>
9	Jadhav Tejashri Raosaheb	<u>Jadhav</u>	<u>Jadhav</u>
10	Jagtap Prajakta Yashwant	<u>Pajtap</u>	<u>Pajtap</u>
11	Jagtap Tejaswini Bharat	<u>Bharat</u>	<u>Bharat</u>
12	Karande Rutuja Virendra	<u>RVK</u>	<u>RVK</u>
13	Kolekar Pranali Rajendra	<u>PRK</u>	<u>PRK</u>
14	Mangave Aishwarya Pravin	<u>Aish.</u>	<u>Aish.</u>
15	Mulani Sharmin Shoukat	<u>Sharmin</u>	<u>Sharmin</u>
16	Nikam Gayatri Mohan	<u>Ganikam</u>	<u>Ganikam</u>
17	Patil Pranali Laxman	<u>Prpatil</u>	<u>Prpatil</u>

Sr. No.	Date Student Name	Theory 20/04/23	Practical 21/04/23
		18	Patil Rutuja Ashok
19	Patil Rutuja Shankar	<u>RSP</u>	<u>RSP</u>
20	Patil Sonal Shrikant	<u>Sonal</u>	<u>Sonal</u>
21	Patil Supriya Vijay	<u>SPV</u>	<u>SPV</u>
22	Patil Swapnali Uttam	<u>SPU</u>	<u>SPU</u>
23	Pawar Kiran Tanaji	<u>KTP</u>	<u>KTP</u>
24	Pawar Nikita Laxman	<u>NL</u>	<u>NL</u>
25	Salunkhe Sanika Kailas	<u>SKK</u>	<u>SKK</u>
26	Sapkal Rahul Gajanan	<u>RSG</u>	<u>RSG</u>
27	Savale Sakshi Arun	<u>SA</u>	<u>SA</u>
28	Shejal Sayajirao Laxman	<u>SL</u>	<u>SL</u>
29	Shinde Digamber Sambhaji	<u>SDS</u>	<u>SDS</u>
30	Shinde Shailaja Dilip	<u>SD</u>	<u>SD</u>
31	Sonavane Pooja Shrikant	<u>PS</u>	<u>PS</u>
32	Surwanshi Pratiksha A.	<u>SA</u>	<u>SA</u>
33	Suryawanshi Nilima G.	<u>SUN</u>	<u>SUN</u>
34	Suryawanshi Rutuja R.	<u>SR</u>	<u>SR</u>
35	Sutar Nikita Nivrutti	<u>SN</u>	<u>SN</u>
36	Waghmare Aditya Dagadu	<u>AW</u>	<u>AW</u>
37	Yamgar Pooja Tatoba	<u>YPT</u>	<u>YPT</u>

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

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

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

**Teacher Attendance**

Sr. No.	Name of Faculty	Lecture Dates										
		16/01/23	23/01/23	06/02/23	13/02/23	20/02/23	27/02/23	06/03/23	13/03/23	20/03/23	27/03/23	03/04/23
1	Mr. Patil T. G.											
		Lecture Dates										
2	Dr. Jadhav B. T.	17/01/23	24/01/23	31/01/23	07/02/23	14/02/23	21/02/23	28/02/23	14/03/23	21/03/23	28/03/23	
		Lecture Dates										
3	Mr. Patil S. B.	11/01/23	18/01/23	25/01/23	01/02/23	08/02/23	15/02/23	22/02/23	01/03/23	15/03/23	29/03/23	05/03/23
		Practical Dates										
4	Mr. Sabale S. M.	12/01/23	27/01/23	03/02/23	17/02/23	03/03/23	24/03/23					

Head

Department of Botany  
P.V.P. Mahavidyalaya  
Kavathe Mahankal Dist-Sangli.

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

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**


**NOTICE**

**13/04/2023**

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

<b>Examination</b>	<b>Date</b>	<b>Time</b>	<b>Venue</b>
Theory	20/04/2023	9:00am to 11:00am	Botany Lecture Hall
Practical	21/04/2023	9:00am to Onwards	Botany Laboratory

  
Co-ordinator

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

Padmabhushan Vasanturadada Patil Mahavidyalaya, Kavathe Mahankal.

## DEPARTMENT OF BOTANY

### Identification and Uses of Medicinal Plants

#### Theory Examination

Date: 20/04/2023

Marks: 50

Time: 9:00am to 11:00am

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) The botanical name of ginger is .....

- |                               |                                |
|-------------------------------|--------------------------------|
| a) <i>Zingiber officinale</i> | b) <i>Papaver somniferum</i>   |
| c) <i>Emblica officinalis</i> | d) <i>Rauwolfia serpentina</i> |

2) The name serpentine refers to .....

- |                                |                                |
|--------------------------------|--------------------------------|
| a) <i>Rauwolfia serpentina</i> | b) <i>Withania somnifera</i>   |
| c) <i>Emblica officinalis</i>  | d) <i>Tinospora cordifolia</i> |

3) *Tinospora cordifolia* is .....

- |                   |                 |
|-------------------|-----------------|
| a) A small tree   | b) A big tree   |
| c) Climbing shrub | d) A small herb |

4) A drug of commerce liquorice is obtained from .....part of plant *Glycyrrhiza glabra*.

- |           |            |
|-----------|------------|
| a) Leaves | b) Fruits  |
| c) Roots  | d) Flowers |

5) A most important chief constituent of opium is .....

- |               |                 |
|---------------|-----------------|
| a) Amino acid | b) Protein      |
| c) Morphine   | c) Organic acid |

6) The name of chemical constituent zingiberine refers to .....

- |                     |                     |
|---------------------|---------------------|
| a) <i>Zingiber</i>  | b) <i>Withania</i>  |
| c) <i>Rauwolfia</i> | c) <i>Tinospora</i> |





**PadmabhushanVasatraodada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF BOTANY**

**Identification and Uses of Medicinal Plants**

**Practical Examination**

**Date: 21/04/2023**

**Marks: 30**

**Time: 9:00am to onwards**

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**Instructions:** 1) All questions are compulsory

2) All questions carry equal marks

**Q.1** Study of exomorphic characters: Study of stem, root, leaf, inflorescence, flower, fruit, and seed of given plant material A.

**Q.2** Prepare a Herbal Ointment.

**Q.3** Evaluate the macroscopic and organoleptic character of given material B

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

**Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.**  
**DEPARTMENT OF BOTANY**  
**Identification and Uses of Medicinal Plants**  
**Result**

Sr. No.	Roll No.	Evaluation Student Name	Internal	Theory	Practical	Oral	Total	Grade
1	B01	Athavale Pramodini Savant	9	46	23	8	86	A
2	B02	Bandgar Sarika Birbal	8	48	25	8	89	A
3	B03	Bhosale Sandhyarani Amol	8	48	23	7	86	A
4	B04	Bhusnar Snehal Namdev	8	48	24	8	88	A
5	B05	Choudhary Geeta Dayaram	9	44	24	8	85	A
6	B06	Deshinge Aditi Maruti	7	46	25	7	85	A
7	B07	Devkate Payal Balaso	8	44	26	9	87	A
8	B08	Dudhal Ratan Savanta	7	48	24	8	87	A
9	B09	Jadhav Tejashri Raosaheb	9	48	23	9	89	A
10	B10	Jagtap Prajakta Yashwant	8	44	23	9	84	A
11	B11	Jagtap Tejaswini Bharat	10	44	29	10	93	A
12	B12	Karande Rutuja Virendra	7	48	26	8	89	A
13	B13	Kolekar Pranali Rajendra	8	36	28	9	81	A
14	B14	Mangave Aishwarya Pravin	9	42	28	9	88	A
15	B15	Mulani Sharmin Shoukat	7	46	28	10	91	A
16	B16	Nikam Gayatri Mohan	8	44	26	10	88	A
17	B17	Patil Pranali Laxman	9	44	28	8	89	A

18	B18	Patil Rutuja Ashok	8	46	27	7	88	A
19	B19	Patil Rutuja Shankar	7	38	28	9	82	A
20	B20	Patil Sonal Shrikant	10	38	28	9	85	A
21	B21	Patil Supriya Vijay	8	34	23	8	73	A
22	B22	Patil Swapnali Uttam	9	48	24	7	88	A
23	B23	Pawar Kiran Tanaji	8	38	25	9	80	A
24	B24	Pawar Nikita Laxman	7	26	25	8	66	A
25	B25	Salunkhe Sanika Kailas	9	32	25	8	74	A
26	B26	Sapkal Rahul Gajanan	8	42	26	9	85	A
27	B27	Savale Sakshi Arun	9	30	26	8	73	A
28	B28	Shejal Sayajirao Laxman	6	46	24	7	83	A
29	B29	Shinde Digamber Sambhaji	7	50	22	8	87	A
30	B30	Shinde Shailaja Dilip	6	50	22	8	86	A
31	B31	Sonavane Pooja Shrikant	7	50	25	10	92	A
32	B32	Suryawanshi Pratiksha A.	8	50	24	9	91	A
33	B33	Suryawanshi Nilima G.	10	48	24	10	92	A
34	B34	Suryawanshi Rutuja R.	6	48	26	8	88	A
35	B35	Sutar Nikita Nivrutti	10	46	26	7	89	A
36	B36	Waghmare Aditya Dagadu	9	46	22	8	85	A
37	B37	Yamgar Pooja Tatoba	6	42	22	7	77	A

  
**Head**  
**Department of Botany**  
**F.V.P. Mahavidyalaya**  
**Kavathe Mahankal Dist-Sangli**



Shikshan Prasarak Sanstha's  
**Padmabhushan Vasantodada 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. *Athavale Pramodini Savant* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

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 Vasantaoada 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. *Bandgar Sarika Birbal* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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 Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal**  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Bhosale Sandhyarani Amol* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

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 Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal**  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Bhusnar Snehal Namdev* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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 Vasantodada Patil Mahavidyalaya, Kavathe Mahankal**  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Choudhary Geeta Dayaram* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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 Vasantodada 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. *Deshinge Aditi Maruti* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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 Vasantaoada 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. *Devkate Payal Balaso* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

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 Vasantodada 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. *Dudhal Ratan Savanta* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Jadhav Tejashri Raosaheb* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
Department of Botany  
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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Jagtap Prajakta Yashwant* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
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Acting Principal  
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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Jagtap Tejaswini Bharat* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Karande Rutuja Virendra* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
Department of Botany  
Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Kolekar Pranali Rajendra* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
Department of Botany  
Mr. T. G. Patil

Acting Principal  
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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Mangave Aishwarya Pravin* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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. *Mulani Sharmin Shoukat* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Department of Botany  
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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Nikam Gayatri Mohan* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Patil Pranali Laxman* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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

This is to certify that Mr./Miss/Mrs. *Patil Rutuja Ashok* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Patil Rutuja Shankar* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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. *Patil Sonal Shrikant* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

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

This is to certify that Mr./Miss/Mrs. *Patil Supriya Vijay* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

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

This is to certify that Mr./Miss/Mrs. *Patil Swapnali Uttam* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

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. *Pawar Kiran Tanaji* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Pawar Nikita Laxman* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
Department of Botany  
Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Salunkhe Sanika Kailas* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Sapkal Rahul Gajanan* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
Department of Botany  
Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Savale Sakshi Arun* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Shejal Sayajirao Laxman* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
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Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Shinde Digamber Sambhaji* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

Acting Principal  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Shinde Shailaja Dilip* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

Acting Principal  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Sonavane Pooja Shrikant* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Suryawanshi Pratiksha Ajayraj* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Suryawanshi Nilima Ganpatrao* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
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Mr. T. G. Patil

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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Suryawanshi Rutuja Ramchandra* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "A" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Sutar Nikita Nivrutti* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
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Head  
Department of Botany  
Mr. T. G. Patil

Acting Principal  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Waghmare Aditya Dagadu* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
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## DEPARTMENT OF BOTANY

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs. *Yamgar Pooja Tatoba* of Class *B. Sc. III* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Identification and Uses of Medicinal Plants', and secured grade "*A*" during the academic year 2022-23.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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