



**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-V: Student Support and Progression

### Key Indicator 5.1 Student Support

**5.1.2** Following capacity development and skills enhancement activities are organized for improving students' capability.


1. Soft Skills
2. Language and Communication Skills
3. Life Skills (Yoga, Physical Fitness and Hygiene)
4. ICT/Computing Skills

## ACADEMIC YEAR 2023-24

### LIFE SKILLS (YOGA, PHYSICAL FITNESS AND HYGIENE)

Sr. No.	Name of the capacity development and skills enhancement program	Period/ Date	Number of students enrolled	Organizing Department	Page Number
1.	Youth Skill Day Celebration	15/7/2023	24	Commerce	2-7
2.	Career Oriented Course in Fitness & Sport Nutrition	20/7/2023 to 15/9/2023	35	Physical Education	8-32
3.	Career Oriented Course in Nursery Management	1/8/2023 to 21/10/2023	35	Botany	33-99
4.	Career Oriented Course in Vermicomposting	7/8/2023 to 23/10/2023	29	Zoology	100-128



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

**Shikshan Prasarak Sanstha's**  
**Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe-Mahankal,**  
**Department of Commerce**  
**WORLD YOUTH SKILL DAY -2023**  
**Activity Report**

<b>Title</b>	<b>WORLD YOUTH SKILL DAY</b>
<b>Day &amp; Date</b>	Saturday, 15/07/2023
<b>Organizer</b>	Department of Commerce
<b>Chairperson</b>	Prof.(Dr.)M.K.Patil (Principal)
<b>Coordinator</b>	DR.B.H.Mohite & Mrs.P.R.Mali
<b>No. of Students Participated</b>	24 Students
<b>No. of Students Present</b>	70 students
<b>Background</b>	Departmental program play a crucial role in helping students make a seamless transition to their new academic environment. This program not only give students a chance to get to know the importance of the day celebrated better, but they also help them become familiar with the various concepts/ themes of the days celebrated. The goal is to create a welcoming, conducive, knowledge gaining learning environment for all students.
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To encourage students to discover their talents, skill.</li> <li>• To explore students' interests outside of their courses</li> <li>• To inspire students to display their abilities.</li> <li>• To learn entrepreneurship traits from their expertise.</li> <li>• To inspire Students to develop their skills and be creative.</li> </ul>
<b>Conclusion</b>	<p>The Department of commerce had organized Student activity to celebrate World Youth Skill Day on July 15, 2023. The major goal of the program was to provide a shared platform where teachers and students could collaborate to explore student's skill and help them to display their skill through this World Youth Skill Day celebration activity. This activity not only encourages students to use their skills but also motivates them to do something unique other than academic work. The students are motivated to learn Entrepreneurship skills and remember the fact that they can always learn and earn using their skill; these people can never be unemployed in their life. This activity also stimulates overall development of students.</p> <p>The meeting concluded with Vote of thanks by Mr R.N.Vasave, Program Introduction done by student Ms. Joshna choudari, activity arrangement member Mr.S.M.shinde, Activity Coordinator P.R.Mali and Head Dr.B.H.Mohite. Addressing Student by Principal Prof.(Dr.) M.K.Patil. sir.</p>



Dr.B.H.Mohite  
**HEAD,**

Department of .....  
 Padmabhushan Vasantrodada Patil



Prof.(D.r.) M.K.Patil

**PRINCIPAL**  
 Principal

**Padmabhushan Vasantrodada Patil**  
 Mahavidyalaya, Kavathe-Mahankal, Dist-Sangli

Date: 11<sup>st</sup> July.2023

To,

The Principal

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe-Mahankal.

Subject :- Regarding Permission for **World Youth Skill Day**

Respected Sir,

The Department of Commerce intends to commemorate “**World Youth Skill Day**” on **July 15, 2023** from 9.00 am to 11.00 a.m in B.com – I classroom. The students are instructed to attend World Youth Skill Day and demonstrate their talents. Hoping permission will be granted.



Dr.Mohite B.H

Head

(Department of Commerce)



Prof.(Dr.) Patil. M.K

**PRINCIPAL,**  
**Padmabhushan Vasantrodada Patil**  
**Mahavidyalaya, Kavathe-Mahankal.**

**Shikshan Prasarak Sanstha**  
**Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe-Mahankal.**  
**Department of Commerce (2023-2024)**

**Date-11/07/2023**

**NOTICE**

All B.Com students are officially notified that the Department of Commerce will be celebrating "World Youth Skill Day" on Saturday, July 15, 2023. Hence, students are instructed to participate in and demonstrate their talents at the World Youth Skill Day event.


**Date - 15/07/23**

**Time - 9.00 a.m to 11.00 a.m**

**Venue - B.com - I Classroom**

  
Dr. Mohite B.H

Head (Department of Commerce)

  
Prof.(Dr.) Patil. M.K

**PRINCIPAL,**  
Principal  
**Padmabhushan Vasantodada Patil**  
**Mahavidyalaya, K. Mahankal.**

Shikshan Prasarak Sanstha's

**Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe-Mahankal,**

**WORLD YOUTH SKILL DAY -2023**

**Student Activity - Program Schedule**

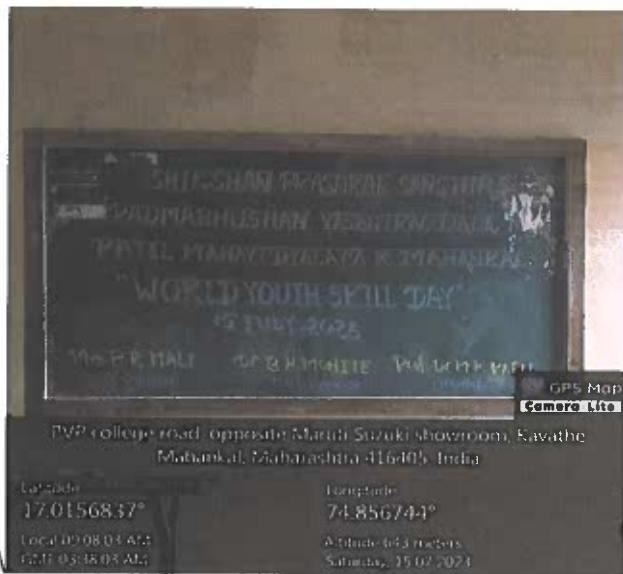
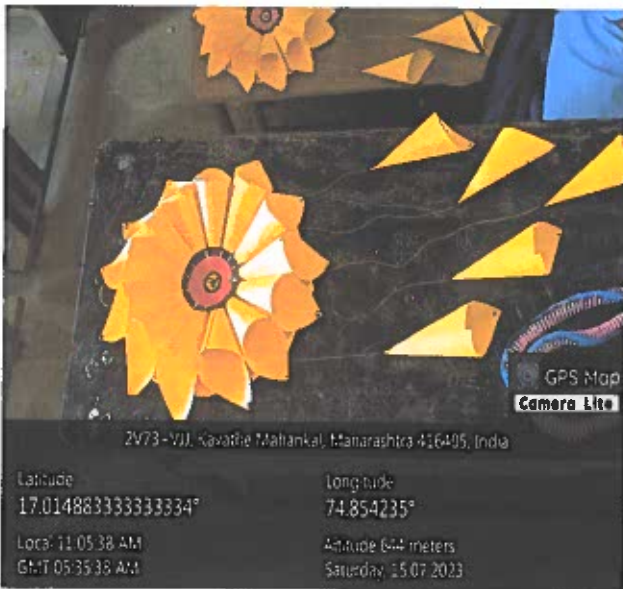
Day, Date, Time	Saturday, 15 July 2023 10.00 a.m Onwards
President	Prof.(Dr.) M.K.Patil
Head of Department	Dr. B.H.Mohite
Coordinator	Mrs. P.R.Mali
Other Members	Mr. S.M.Shinde, Mr. R.N.Vasave
Introduction	Student- Ms. Joshna choudhari
Anchoring	Mr. S.M.Shinde
Vote of Thanks	Mr. R.V.Vasave

  
HEAD

Department of .....  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, Kavathe-Mahankal.

**Photos of**

**“WORLD YOUTH SKILL DAY”**



DEPARTMENT OF COMMERCE

*[Signature]*  
HEAD,

Department of .....  
Padmabhushan Vasantraodada Patil  
Mahavidyalaya, Kavathe Mahankal

Shiksha Prasarak Samithi's  
Padambhushan Yashwantraodada Patil Mahavidyalaya, Kavathe-Mahankal,  
Department of Commerce

World Youth Skill Day 2023- Student Activity

Attendance Sheet

Date: 15/07/2023

Sr.No.	Name of the Students - Participated	Skilled activity performed by the student	Sign.
1	Aarti Adhikar Shinde	Mehandi	A Shinde
2	Kaena Yashwant Patil	Mehandi	K Patil
3	Amruta Vijay Jadhav	mehandi	A Jadhav
4	Samrudhi Sanjay Shinde	Wall hanging (Art) Macrame bag (craft)	S Shinde
5	Vaishnavi Suryakant olekar	Mehandi	V olekar
6	Sonali Siddheshwar Mali	Mehandi	S Mali
7	Shraddha Suresh Jadhav	Mehandi (Zula) (Macrame)	S Jadhav
8	Vaishnavi Sunil Madane	Macrame (Garpti)	V.S. Madane
9	Vidya Ashok Desai	Mandala Art	V Desai
10	Pronali Tukaram Sawant	Mehandi art	P Sawant
11			
12	Shraddha Bapu dhobale		S.B. dhobale
13	Sayali Tukaram Mali		S.T. Mali
14			
15	Vaishnavi Sunil madane		V.S. Madane
16			
17			
18			
19			
20			

Shikshan Prasarak Sanstha's  
**Padmabhushan Vasantodada Patil Mahavidyalaya**  
Kavathe Mahankal Dist. Sangli



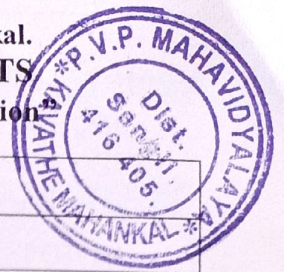
***DEPARTMENT OF PHYSICAL EDUCATION & SPORTS***

Career Oriented Course in

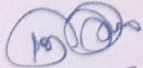
**“Fitness and Sports Nutrition”**

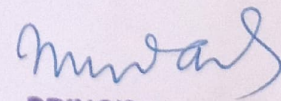
**(2023-24)**

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.  
**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**  
**Report on Career Oriented Course in "Fitness and Sports Nutrition"**



Title	Career Oriented Course in "Fitness and Sports Nutrition"
Duration	20 July 2023 to 15 September 2023
Organizer	Department of Gymkhana, P.V.P. Mahavidyalaya Kavathe Mahankal
Funding	--
BOS / Faculty	Mr. A.P. Bhosale Dr. M. M. Shinde Mr. S. N. Phakade Mr. N.S. Waghmare Mr. N. P. Shinde
Coordinator	Dr. M. M. Shinde
Background	A course in fitness and sports nutrition typically provides a comprehensive understanding of the principles of nutrition and how they apply to physical fitness, exercise, and sports performance.
Objective	1. To provide the concept and relationship among fitness, sports and nutrition. 2. To enable student to understand the basic physiology of human body and the energy systems of the human body. 3. To provide detail understanding of macro and micro nutrients; their role, requirement, classification, digestion and absorption. 4. To provide scientific understanding of Ergogenic Aids, Supplements, Fad Diets and Eating Disorders. 5. To acquaint student with the guidelines required to prepare diet chart for general fitness, specific sports and therapeutic diets and to provide them hands on experience of preparing basic diet charts
Outcomes	1. Introduction to HRPF and SRPF, Body composition and its assessment Morphological Classification of Body Type. 2. Understanding of Nature and Classification of sports :Aerobic & Anaerobic, Strength & Endurance, Recreational & Competitive, Concept of Nutrition Understanding fitness and Sports specific nutritional requirements 3. Understand Concept of Balanced diet and Food Pyramid, Classification of Nutrients, Macronutrients : Classification, Function, Digestion and Absorption, Metabolism, Requirement, Source and Role in Human body Health and Exercise •Carbohydrates •Fats •Protein 4. Understand Concept of exchange list, Balanced diet, Diet Planning for various sports – Endurance, Strength, Team sport etc., Diet Planning for , Pre-competition, during competition and post-competition meals, Weight management
Conclusion	In conclusion, a fitness and sports nutrition course provides a comprehensive foundation in the principles of nutrition and their application to physical fitness, exercise, and sports performance. Students gain knowledge in macronutrients, micronutrients, supplementation, exercise physiology, weight management, meal planning, and counseling.

  
**- The Head**  
**Department Of Physical Education**  
**P.V.P.College, Kavathe Mahankal,**  
**Dist - Sangli**

  
**PRINCIPAL,**  
**Padmabhushan Vasantrodada Patil**  
**Mahavidyalaya, K.Mahankal, Dist-Sangli**



Estd.:1978

Re-accredited 'B' Grade  
In 3<sup>rd</sup> NAAC cycle

Shikshan Prasarak Sanstha's

**Padmabhushan Vasantrodada Patil Mahavidyalaya**

KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin 416405

Affiliated to Shivaji University Kolhapur, Arts/Commerce/Science (UG)

**INTERNAL CORRESPONDANCE LETTER**

**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

Ref. No. PVPKM/GYM/

Date:

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

**Subject:** Seeking a permission to start the career oriented course in “**Fitness and Sports Nutrition**”.

Respected sir,

As per your guidelines we are going to start a career oriented course in “**Fitness and Sports Nutrition**” in Department of Physical Education for our college students. This course will be of 30 hours and will be completed during July 2023 to September 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

Mundal

Yours faithfully,

  
Director.

Physical Education and Sports  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, K. Mahankal, Dist-Sangli



Estd.:1978

Re-accredited 'B' Grade  
In 3<sup>rd</sup> NAAC cycle

Shikshan Prasarak Sanstha's

**Padmabhushan Vasantraodada Patil Mahavidyalaya**

KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin 416405

Affiliated to Shivaji University Kolhapur, Arts/Commerce/Science (UG)

**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**


Ref. No. PVPKM/GYM/

Date: 05/07/2023

### NOTICE

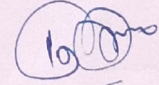
All the students of B.A., B.Com and B.Sc. are hereby informed that, Department of Physical Education is going to start the career oriented course in "Fitness and Sports Nutrition". The interested students are requested to enroll up to 15<sup>th</sup> July, 2023.



  
Coordinator  
Director

Physical E  
Padmabhush  
Mahavidyalaya

Sports  
a Patil  
Dist-Sangli



- The Head  
Department Of Physical Education  
P.V.P.College, Kavathe Mahankal,  
Dist - Sangli

Shikshan Prasarak Sanstha's  
**Padmbhushan Vasantodada Patil Mahavidyalaya**  
**KAVATHE MAHANKAL Dist. Sangli**



Affiliated to Shivaji University Kolhapur,

**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

Career Oriented Course in

*Career Oriented Course in*


**FITNESS AND SPORTS NUTRITION**

Duration: 30  
Hours

Starting From 20<sup>th</sup> July 2023

Open For  
Enrollment

Contact: 9730139706

  
PRINCIPAL,  
Padmbhushan Vasantodada Patil  
Mahavidyalaya, Kavathe Mahankal, Dist-Sangli



Estd.:1978

Re-accredited 'B' Grade  
In 3<sup>rd</sup> NAAC cycle

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

KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin 416405  
Affiliated to Shivaji University Kolhapur, Arts/Commerce/Science (UG)

**INTERNAL CORRESPONDANCE LETTER**  
**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

## Fitness and Sports Nutrition

### Board of Studies

Sr. No.	Name	Designation	Signature
1.	Mr. A.P. Bhosale	HoD	
2.	Dr. M. M. Shinde	Coordinator	
3.	Mr. S. N. Phakade	Member	
4.	Mr. N.S. Waghmare	Member	
5.	Mr. N. P. Shinde	Member	

The Head  
Department Of Physical Education  
P.V.P.College,Kavathe Mahankal,  
Dist - Sangli



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



Shikshan Prasarak Sanstha's  
**Padmabhushan Vasantodada Patil Mahavidyalaya**  
Kavathe Mahankal Dist. Sangli

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

Career Oriented Course in

“”

**(2023-24) Fitness and Sports Nutrition**

**Fitness and Sports Nutrition**

**Objectives:**

- To provide the concept and relationship among fitness, sports and nutrition.
- To enable student to understand the basic physiology of human body and the energy systems of the human body.
- To provide detail understanding of macro and micro nutrients; their role, requirement, classification, digestion and absorption.
- To provide knowledge on food selection, macronutrient ratios, micronutrients and human physiology related to digestion and metabolism of food.
- To provide scientific understanding of Ergogenic Aids, Supplements, Fad Diets and Eating Disorders.
- To make student Learn about obtaining essential nutrients from food and supplements and dietary guidelines to support athletic health and performance
- To acquaint student with the guidelines required to prepare diet chart for general fitness, specific sports and therapeutic diets and to provide them hands on experience of preparing basic diet charts

**Duration:**

The course will be completed in 50 hours (3 months).

**Eligibility of the student:**

1. Student must have passed HSC Examination
2. Candidates should be medically fit and sound.

**Course outcomes:**

By the end of this course students are expected,

1. Introduction to HRPF and SRPF, Body composition and its assessment  
Morphological Classification of Body Type.

2. Understanding of Nature and Classification of sports :Aerobic & Anaerobic, Strength & Endurance, Recreational & Competitive, Concept of Nutrition Understanding fitness and Sports specific nutritional requirements
3. Understand Concept of Balanced diet and Food Pyramid, Classification of Nutrients, Macronutrients : Classification, Function, Digestion and Absorption, Metabolism, Requirement, Source and Role in Human body Health and Exercise  
•Carbohydrates •Fats •Protein
4. Micronutrients : Classification, Requirement, Source and Role in Human body Vitamins, Minerals, Role of Water and Fluids during and after activity, Maintenance of Electrolyte balance
5. Understanding Ergogenic Aids: concept, Need and Importance , Ethical considerations – Supplements : Need and Importance for maintaining general and specific fitness.
6. Understand Concept of exchange list, Balanced diet, Diet Planning for various sports – Endurance, Strength, Team sport etc., Diet Planning for , Pre-competition, during competition and post-competition meals, Weight management

#### **Evaluation Method:**

The examination will be conducted in theory examination will consist of 50 multiple choice questions will be of 50 marks at the end of the course.

### **Fitness and Sports Nutrition Syllabus**

#### **Unit 1: Fundamentals of Fitness, Sports and Nutrition**

- Introduction to HRPF and SRPF
- Body composition and its assessment
- Morphological Classification of Body Type
- Nature and Classification of sports :Aerobic & Anaerobic, Strength & Endurance, Recreational & Competitive
- Concept of Nutrition
- Understanding fitness and Sports specific nutritional requirements

#### **Unit 2: Introduction to Human Physiology & Energy Metabolism**

- Physiology of digestive system
- Parts of the digestive system
- Process of Digestion
- Digestion and Absorption of Nutrients
- Introduction to Excretory System
- Energy metabolism : • Aerobic energy metabolism • Anaerobic energy metabolism

- Assessment of Energy requirements
- Recommended Dietary Allowance

### **Unit 3: Macronutrients, Micronutrients and Hydration**

- Concept of Balanced diet and Food Pyramid
- Classification of Nutrients
- Macronutrients : Classification, Function, Digestion and Absorption, Metabolism, Requirement, Source and Role in Human body Health and Exercise •Carbohydrates •Fats •Proteins
- Micronutrients : Classification, Requirement, Source and Role in Human body •Vitamins •Minerals
- Role of Water and Fluids during and after activity
- Maintenance of Electrolyte balance

### **Unit 4: Ergogenic Aids, Supplements, Fad Diets and Eating Disorders**

- Ergogenic Aids: concept, Need and Importance , Ethical considerations
- Supplements : Need and Importance for maintaining general and specific fitness
- Fad Diets: History, Concept and Research based interpretations
- Validification of Fad Diets
- Eating Disorders : Symptoms, Causes and Management

### **Unit 5: Meal Planning and preparing Diet Chart**

- Introduction to food and nutrients.
- Meal Planning Principles of meal planning through the life cycle.
- Preparation of basic and general Diet Charts
- Concept of exchange list
- Balanced diet
- Diet Planning for various sports – Endurance, Strength, Team sport etc
- Diet Planning for :- Pre-competition, during competition and post-competition meals
- Weight management

### **Books For Reference:-**

- Carolyn D. Berdanier, CRC Desk Reference for Nutrition, CRC Press 1998
- Fink, H., Burgoon, L., & Mikesky, A. (2006). Practical Applications in Sports Nutrition.
- James Groff, Advanced Nutrition and Human metabolism, Wadsworth 2000.

- Jones and Bartlett. USA Williams (2005). *Nutrition for Health, Fitness, & Sport* (7edn) Mc Graw Hill Publication. Newyork
- Judy A. Driskell & Ira Wolinsky, *Sports Nutrition*, friends Pub. 2006
- Manore M and Thompson J. 2000. *Sport Nutrition for Health and Performance*. Human Kinetics, Windsor, ON. ISBN: 9780873229395.
- Mark Kern, *Sports Nutrition*, Tayloy & Francis Group 2005
- Meltzer, S., & Fuller, C. (2005). *The Complete Book of Sports Nutrition: A Practical Guide to Eating for Sport*. New Holland Publishers. London
- Pande P.K. (2010). *Outline of Sports Medicine*, New Delhi Jaypee Bros 36
- Pande, P. (2005). *Sports Medicine – curious queries*. KSK. New Delhi
- Wilmore, J H and Costill, D L (2004) *Physiology of Sport and Exercise*. Champaign, Illinois: Human Kinetics
- McArdle, W.D., Katch, F.I. and Katch, V.L. (2007). *Exercise Physiology, Energy, Nutrition and Human Performance*. Baltimore: Lippincott, Williams & Wilkins



**- The Head**  
**Department Of Physical Education**  
**P.V.P.College, Kavathe Mahankal,**  
**Dist - Sangli**

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

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


***Department of Physical Education and Sports***

**TIMETABLE FOR CERTIFICATE COURSE IN FITNESS AND SPORTS**

**NUTRITION (2023-24)**

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	11.03 to 11.51	Theory	***	Theory	Theory	***	***
2.	11.51 to 12.39	***	Theory	***	***	Theory	Theory



  
- The Head  
Department Of Physical Education  
P.V.P.College, Kavathe Mahankal,  
Dist - Sangli



Estd.:1978

Re-accredited 'B' Grade  
In 3<sup>rd</sup> NAAC cycle

Shikshan Prasarak Sanstha's

**Padmabhushan Vasantrodada Patil Mahavidyalaya**

KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin 416405

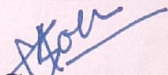
Affiliated to Shivaji University Kolhapur, Arts/Commerce/Science (UG)

**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

Date: 15/07/2023

## NOTICE

All the enrolled students are hereby informed that, the lectures & practical of the course will be started from 20<sup>th</sup> July, 2023 as per timetable. All the lectures will be conducted in Department of Physical Education.

  
Coordinator  
Director,

Physical Education and Sports  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, K. Mahankal, Dist-Sangli





Head  
- The Head  
Department Of Physical Education  
P.V.P.College, Kavathe Mahankal,  
Dist - Sangli

Attendance for Fitness and Sports Nutrition Course

Sr. No.	Student Name	Class	Date	20/07	21/07	22/07	24/07 2023	25/07 2023	26/07 2023	27/07 2023	28/07 2023	01/08 2023	02/08 2023	03/08 2023	04/08 2023	07/08 2023	08/08 2023	09/08 2023
1	Bajbale Vijay Suresh	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	Bhosale Dhanashree Himmat	B.Com.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	Bhosale Gaurav Ganpatrao	B.Sc.- III		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	Bhosale Laxmi Bhanudas	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	Bhosale Sanika Netaji	B.Com.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	Chavan Mahesh Maruti	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	Chavan Yogesh Tanaji	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	Gujale Abhijit Adhik	B.A.- III		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	Holkar Akshada Manik	B.A.- III		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	Kamble Shilyug Rajendra	B.A.- III		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	Londhe Adarsh Chandrakant	B.A.-II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12	Malame Shankar Suresh	B.A.-II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13	Malame Vijay Malhari	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14	Mali Karan Dattatray	B.A.-II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15	Mali Namrata Sanjay	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
16	Mane Kunal Ramesh	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
17	Mane Rohit Sunder	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
18	Narute Chandrakant Rajaram	B.A.- II		Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

Department of Physical Education  
 Kavathe Mahankal  
 Patil Mahavidyalaya

Attendance for Fitness and Sports Nutrition Course

Sr. No.	Student Name	Class	20/07/2023	21/07/2023	22/07/2023	24/07/2023	25/07/2023	26/07/2023	27/07/2023	28/07/2023	01/08/2023	02/08/2023	03/08/2023	04/08/2023	07/08/2023	08/08/2023	09/08/2023	
19	Patil Aniket Avinash	B.Sc.- II	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	
20	Patil Rushikesh Namdev	B.Sc.- II	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	
21	Rupnar Dhananjay Rajaram	B.A.- II	der	der	der	der	der	der	der	der	der	der	der	der	der	der	der	
22	Sakate Vaibhav mahadev	B.A.- III	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	
23	Sargar Yuvraj Laxman	B.A.- III	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	
24	Shinde Sanket Ramrav	B.com.- III	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	
25	Khilare Sachin Natha	B.A.- I	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	
26	More Sourabh Arvind	B.A.- I	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	Smore	
27	Olekar Vaibhav Vikas	B.Com. I	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	Nolekar	
28	Shinde Tatyaso Ananda	B.A.- I	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	
29	Jagtap Shubham Shivaji	B.A.- I	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	Jagtap	
30	Kolekar Prasad Prakash	B.A.- I	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	
31	Mane Sachin Prakash	B.A.- I	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane	Smane
32	Nikam Vaishnavi Vinayak	B.A.- I	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	N.Nikam	
33	Pinjari Simaran Bandu	B.A.- I	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	
34	Sonnur Ashwini Yashwant	B.Sc.- I	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	A.Y.S.	
35	Gawade Aparna Sanjay	B.A.- I	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	

The Head  
Department Of Physical Education  
P.V.P.College,Kavathe Mahankal,  
Dist - Sangli

Attendance for Fitness and Sports Nutrition Course

Sr. No.	Student Name	Class	10/08/2023	11/08/2023	12/08/2023	17/08/2023	18/08/2023	19/08/2023	21/08/2023	22/08/2023	23/08/2023	24/08/2023	25/08/2023	26/08/2023	28/08/2023	04/09/2023	05/09/2023	
1	Bajbale Vijay Suresh	B.A.- II	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	BVS	
2	Bhosale Dhanashree Himmat	B.Com.- II	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	
3	Bhosale Gaurav Ganpatrao	B.Sc.- III	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	
4	Bhosale Laxmi Bhanudas	B.A.- II	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	<del>BVS</del>	
5	Bhosale Sanika Netaji	B.Com.- II	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	SNBh	
6	Chavan Mahesh Maruti	B.A.- II	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	M.M.C	
7	Chavan Yogesh Tanaji	B.A.- II	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	<del>M.M.C</del>	
8	Gujale Abhijit Adhik	B.A.- III	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	Agyule	
9	Holkar Akshada Manik	B.A.- III	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	A.H.M	
10	Kamble Shilyug Rajendra	B.A.- III	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	Skambh	
11	Londhe Adarsh Chandrakant	B.A.-II	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	A.londhe	
12	Malame Shankar Suresh	B.A.-II	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	S.mal	
13	Malame Vijay Malhari	B.A.- II	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	M.mal	
14	Mali Karan Dattatray	B.A.-II	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	K.D.M	
15	Mali Namrata Sanjay	B.A.- II	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali	M.mali
16	Mane Kunal Ramesh	B.A.- II	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane	R.mane
17	Mane Rohit Sunder	B.A.- II	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM	RSM
18	Narute Chandrakant Rajaram	B.A.- II	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	<del>N.RC</del>	

Department of Physical Education and Sports  
 P.V.P. College, Kavathe Mahankal  
 Dist - Solapur

Attendance for Fitness and Sports Nutrition Course

Sr. No.	Student Name	Class	10/08/2023	11/08/2023	12/08/2023	17/08/2023	18/08/2023	19/08/2023	21/08/2023	22/08/2023	23/08/2023	24/08/2023	25/08/2023	26/08/2023	28/08/2023	04/09/2023	15/09/2023
19	Patil Aniket Avinash	B.Sc.- II	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
20	Patil Rushikesh Namdev	B.Sc.- II	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
21	Rupnar Dhananjay Rajaram	B.A.- II	der	der	der	der	der	der	der	der	der	der	der	der	der	der	der
22	Sakate Vaibhav mahadev	B.A.- III	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate	sakate
23	Sargar Yuvraj Laxman	B.A.- III	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS	YLS
24	Shinde Sanket Ramrav	B.com.- III	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde
25	Khilare Sachin Natha	B.A.- I	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK	SNK
26	More Sourabh Arvind	B.A.- I	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore
27	Olekar Vaibhav Vikas	B.Com. I	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar	olekar
28	Shinde Tatyaso Ananda	B.A.- I	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde	shinde
29	Jagtap Shubham Shivaji	B.A.- I	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap	jagtap
30	Kolekar Prasad Prakash	B.A.- I	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP	KPP
31	Mane Sachin Prakash	B.A.- I	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore	smore
32	Nikam Vaishnavi Vinayak	B.A.- I	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam	vnikam
33	Pinjari Simaran Bandu	B.A.- I	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB	SPB
34	Sonnur Ashwini Yashwant	B.Sc.- I	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS	AYS
35	Gawade Aparna Sanjay	B.A.- I	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG	ASG

The Head  
Department Of Physical Education  
P.V.P. College Kavathe Mahankal,  
Dist - Solapur



Estd.:1978

Re-accredited 'B' Grade  
In 3<sup>rd</sup> NAAC cycle

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

KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin 416405  
Affiliated to Shivaji University Kolhapur, Arts/Commerce/Science (UG)

**DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

Date: 05-09-2023

## NOTICE

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

Examination	Time
Theory	21 <sup>th</sup> September, 2023 (11.00 a.m. to 12.30 p.m.)

Coordinator



Director,  
Physical Education and Sports  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, K.Mahankal, Dist-Sangli



Head

  
- The Head  
Department Of Physical Education  
P.V.P.College, Kavathe Mahankal,  
Dist - Sangli



**Instructions:** 1) All questions are compulsory  
2) Each question carries 1 marks.

1. खालीलपैकी कशामध्ये मनोरंजनात वाव नाही ?
  - खेळणे
  - झोपणे
  - चालणे
  - व्यायाम
2. संवर्धनाचा शरीर संवर्धनाचा पोट भाग कोणता. ?
  - चालणे
  - बोलणे
  - जिम्नास्टिक
  - यापैकी नाही
3. क्रीडा साहित्य व मोठी मैदाने ह्याची गरज का असते?
  - बसण्यासाठी
  - खेळण्यासाठी
  - अभ्यासासाठी
  - झोपण्यासाठी
4. मानसिक ताणतणावातून बाहेर पडण्यासाठी पुढीलपैकी कोणत्या आसनाचा फायदा होतो.
  - एकपाद उतानासन
  - शवासन
  - पवन मुक्तासन
  - सर्वांगास
5. उत्साही व यशस्वी जिवाचे साधन कोणते?
  - दमदारपणा
  - लवचिकता
  - आरोग्य
  - यापैकी नाही
6. खालीलपैकी कश्यामुळे स्नायु गोंडस, पिळदार व शक्तिमान होतात?
  - व्यायाम
  - हालचाल
  - झोप
  - यापैकी नाही
7. चालण्याचा व्यायाम किती मिनिटे करावा?
  - 30 मिनिटे
  - 40 मिनिटे
  - 45 मिनिटे
  - 35 मिनिटे

8. आहार कसा असावा?

- समतोल
- फक्त मांसाहारी
- थंड
- यापैकी नाही

9. कोणता अन्नघटक शरीरामध्ये साठविला जात नाही?

- कार्बोदके
- प्रथिने
- स्निग्ध पदार्थ
- यापैकी नाही

10. थकवा येऊन सुद्धा गरजेच्या वेळी ऊर्जा साठवून ठेवण्याची क्षमता म्हणजे काय?

- सदृढता
- लवचिकता
- दम
- चपळता

11. एखादी कृती किंवा कार्य सतत जास्त वेळ करण्याची क्षमता म्हणजे काय?

- दमदारपणा
- दिशाभिमुखता
- लवचिकता
- यापैकी नाही

12. कार्बोदके मिळण्याचा प्राणीज स्रोत कोणता?

- मांस
- मासे
- फळे
- दूध

13. योगासने आणि प्राणायमामुळे शरीर ..... बनते.

- लवचिक व सुदृढ
- ताठर
- जाड
- ठेंगणे

14. नियमित योगासने केल्याने मानसिक स्तरावरचा ताणतणाव ..... राहतो.

- नियंत्रणात
- वाढतो
- कमी
- तसाच रहातो

15. चालने हा कोणत्या प्रकारचा व्यायाम आहे ?

- अनएरोबिक
- एरोबिक
- पारंपारिक
- यापैकी नाही

16. रक्तामध्ये हिमोग्लोबिन तयार करण्यासाठी काय आवश्यक आहे?
- कॅल्शियम
  - लोह
  - फॉस्फरस
  - मॅग्नेशियम
17. आयोडीनच्या कमतरतेमुळे होणारा आजार हा आहे
- रक्तक्षय
  - गलगंड
  - कांजिण्या
  - स्वाइन फ्लू
18. ---- आपल्या शरीरातील निरंतर शरीराचे तापमान राखण्यास मदत करते.
- पाणी
  - धान्याचा कोंडा
  - जीवनसत्त्वे
  - ऊर्जा देणारे पदार्थ
19. चरबीयुक्त खाणे जास्त केल्याने व्यक्ती बनते.
- लठ्ठ
  - गलगंड
  - चरबीयुक्त
  - काहीही नाही
20. खालीलपैकी कोणत्या पदार्थात कार्बोहायड्रेट्स असतात
- तांदूळ
  - धान्य
  - कडधान्ये
  - यापैकी काहीही नाही
21. मुलांच्या शारीरिक व मानसिक विकासासाठी .....हालचाली महत्वाच्या आहेत.
- झोपेतील
  - धावण्यातील
  - तालबद्ध
  - यापैकी नाही
22. शरीर धारणेतील दोष कोणता?
- व्यसनाधीनता व)
  - प्रामाणिकपणा
  - सपाट पाऊल
  - यापैकी नाही
23. व्यायाम म्हणजे काय?
- शरीर व मनाची प्रगती
  - मनाची प्रगती
  - शरीराची प्रगती
  - यापैकी नाही

24 शक्ति, युक्तिच्या योग्य समन्वयाने सफाईदारपणे कोणतीही क्रिया करणे म्हणजे काय ?

- आरोग्य
- कौशल्य
- लवचिकता
- चपळाई

25. उत्साही व यशस्वी जिवाचे साधन कोणते?

- दमदारपणा
- लवचिकता
- आरोग्य
- यापैकी नाही

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal  
DEPARTMENT OF PHYSICAL EDUCATION

Result for Fitness and Sports Nutrition Course



Sr. No.	Student Name	Class	Marks	Remark
1	Bajbale Vijay Suresh	B.A.- II	44	O
2	Bhosale Dhanashree Himmat	B.Com.- II	46	O
3	Bhosale Gaurav Ganpatrao	B.Sc.- III	48	O
4	Bhosale Laxmi Bhanudas	B.A.- II	40	A
5	Bhosale Sanika Netaji	B.Com.- II	44	O
6	Chavan Mahesh Maruti	B.A.- II	46	O
7	Chavan Yogesh Tanaji	B.A.- II	40	A
8	Gujale Abhijit Adhik	B.A.- III	48	O
9	Holkar Akshada Manik	B.A.- III	46	O
10	Kamble Shilyug Rajendra	B.A.- III	38	A
31	Londhe Adarsh Chandrakant	B.A.-II	46	O
12	Malame Shankar Suresh	B.A.-II	44	O
13	Malame Vijay Malhari	B.A.- II	48	O
14	Mali Karan Dattatray	B.A.-II	48	O
15	Mali Namrata Sanjay	B.A.- II	40	A
16	Mane Kunal Ramesh	B.A.- II	48	O
17	Mane Rohit Sunder	B.A.- II	46	O
38	Narute Chandrakant Rajaram	B.A.- II	48	O
39	Patil Aniket Avinash	B.Sc.- II	42	A
40	Patil Rushikesh Namdev	B.Sc.- II	34	A
42	Rupnar Dhananjay Rajaram	B.A.- II	34	A
44	Sakate Vaibhav mahadev	B.A.- III	34	A
46	Sargar Yuvraj Laxman	B.A.- III	46	A
48	Shinde Sanket Ramrav	B.com.- III	40	A
25	Khilare Sachin Natha	B.A.- I	38	A
26	More Sourabh Arvind	B.A.- I	44	A
27	Olekar Vaibhav Vikas	B.Com. I	40	A
28	Shinde Tatyaso Ananda	B.A.- I	46	A
29	Jagtap Shubham Shivaji	B.A.- I	48	A
30	Kolekar Prasad Prakash	B.A.- I	42	A
31	Mane Sachin Prakash	B.A.- I	42	A
32	Nikam Vaishnavi Vinayak	B.A.- I	34	A
33	Pinjari Simaran Bandu	B.A.- I	34	A
34	Sonnur Ashwini Yashwant	B.Sc.- I	34	A
35	Gawade Aparna Sanjay	B.A.- I	46	A

(\*A – Satisfactory \*\*O – Outstanding)

The Head  
Department Of Physical Education  
P.V.P.College,Kavathe Mahankal,  
Dist - Sangli

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

**DEPARTMENT OF PHYSICAL EDUCATION & SPORTS**

**Career Oriented Course in "Fitness and Sports Nutrition"**

**Brief Summary**

<b>Sr. No.</b>	<b>Organizing department</b>	<b>Department Of Physical Education &amp; Sports</b>		
1	<b>Type of Activity</b>	Career Oriented Course in "Fitness and Sports Nutrition"		
2	<b>Duration of Activity</b>	20 <sup>th</sup> July 2023 to 15 <sup>th</sup> September 2023		
3	<b>Venue</b>	Department Of Physical Education		
4	<b>Participation Students</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
		26	09	35
5	<b>Result</b>	<b>A-Grade</b>	<b>O-Grade</b>	<b>Total</b>
		21	14	35

  
Coordinator

Physical Education & Sports  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, Kavathe Mahankal





- The Head  
Department Of Physical Education  
P.V.P.College, Kavathe Mahankal,  
Dist - Sangli

Shikshan Prasarak Sanstha's  
**PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA,**  
**KAVATHE MAHANKAL, Dist. Sangli (Maharashtra)**



Affiliated to Shivaji University Kolhapur,

**DEPARTMENT OF PHYSICAL EDUCATION & SPORTS**

Career Oriented Course in

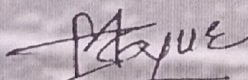
**"FITNESS AND SPORTS NUTRITION"**

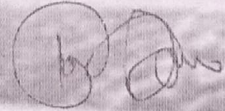
# Certificate

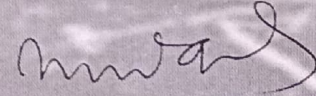
This is to certify that Mr. / Ms. Bhosale Suraj Anil.

(B.A./B.COM./B.SC. I/II/III) of *P.V.P. Mahavidyalaya Kavathe Mahankal*  
*Dist. Sangli.* has successfully completed the career oriented  
course in **"Fitness and Sports Nutrition"** during July 2023 to  
Septembr 2023.

**PRINCIPAL,**  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, K. Mahankal, Dist-Sangli

  
**Dr. M. M. Shinde**  
Coordinator

  
**Mr. A.P. Bhosale**  
Head

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

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



Kavathe Mahankal, Sangli  
Affiliated to Shivaji University, Kolhapur

*A Career Oriented Course  
in Nursery Management*

Prepared by

**Department of Botany**


**Padmabhushan Vasanttraodada 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 Vasantrodada 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 Vasantrodada Patil  
Mahavidyalaya, K. Mahankal, Dist. Sangli

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

## INDEX

Sr. No.	Content	Page No.
1.	Permission Letter	1
2.	Notice for enrollment	2
3.	Brochure	3
4.	Board of studies	4
5.	Objectives	5-6
	Duration	
	Eligibility of the student	
	Outcomes	
	Evaluation method	
6.	Syllabus	7
7.	Timetable	8
8.	Notice for starting the course	9
9.	List of students and attendance	10-21
10.	Photos	22
11.	Notice for examination	23
12.	Theory Paper	24-25
13.	Practical question paper	26
14.	Result	27-28
15.	Certificate	29-33
16.	One page report	34
17.	Summary	35

## 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 Vasanthaodada 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


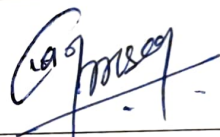


Contact us on:  
Mob No. 9822495288

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

**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

**PadmabhushanVasatraodada Patil Mahavidyalaya, KavatheMahankal.**

**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 Vasanturadada Patil Mahavidyalaya, KavatheMahankal.**

**DEPARTMENT OF BOTANY**

**Nursery Management**

**Admission List**

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

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

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

**Padmabhushan Vasanturadada 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	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	
2	* Patil Sanika Machindra	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	
3	Chavan Amit Vinayak	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	
4	Chougule Ganesh Rajaram	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>
5	* Patil Minal Kumar	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>
6	* Koshti Shraddha Shrikant	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>
7	* Kadam Snehal Dadaso	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>	<del>Amali</del>

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

Sr. No.	Date	Student Name																													
			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					
31.	Patil Dhiraj Dattatray	<del>ARK</del>	<del>Shinde</del>	01/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	02/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	07/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	08/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	09/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	14/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	21/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	22/08/2023			
		<del>ARK</del>	<del>Shinde</del>	23/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	28/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	29/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	30/08/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	04/09/2023			
		<del>ARK</del>	<del>Shinde</del>	05/09/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	06/09/2023	Patil		
		<del>ARK</del>	<del>Shinde</del>	11/09/2023	Patil		
		32.	Kumbhar Suyog Jotiram	<del>ARK</del>	<del>Shinde</del>	12/09/2023	Patil
<del>ARK</del>	<del>Shinde</del>			13/09/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			25/09/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			26/09/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			27/09/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			03/10/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			04/10/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			09/10/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			10/10/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			11/10/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			16/10/2023	Patil		
<del>ARK</del>	<del>Shinde</del>			17/10/2023	Patil		
33.	Shinde Chaitanya			<del>ARK</del>	<del>Shinde</del>		STK
				<del>ARK</del>	<del>Shinde</del>		STK
				<del>ARK</del>	<del>Shinde</del>		STK
				<del>ARK</del>	<del>Shinde</del>		STK
				<del>ARK</del>	<del>Shinde</del>		STK
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		34.	*Desai Rutuja Appa	<del>ARK</del>	<del>Shinde</del>		STK
				<del>ARK</del>	<del>Shinde</del>		STK
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
<del>ARK</del>	<del>Shinde</del>				STK		
35.	*Kalekar Anushka Ramchandra			<del>ARK</del>	<del>Shinde</del>		STK
				<del>ARK</del>	<del>Shinde</del>		STK
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		
		<del>ARK</del>	<del>Shinde</del>		STK		

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










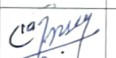

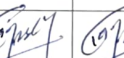
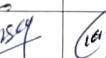
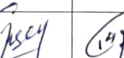
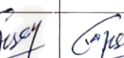
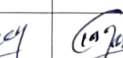








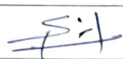







Sr. No.	Date Student Name	11/08/2023	25/08/2023	08/09/2023	29/09/2023	06/10/2023
		18	* Vhanmane Pooja Vilas	<u>Pvt</u>	<u>Pvt</u>	<u>Pvt</u>
19	* Harage Pooja Sanjay	<u>Harage</u>	<u>Harage</u>	<u>Harage</u>	<u>Harage</u>	<u>Harage</u>
20	* Vhanmane Aarti Vilas	<u>Avt</u>	<u>Avt</u>	<u>Avt</u>	<u>Avt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

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

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

Sr. No.	Date	Theory	Practical
	Student Name	20/04/23	21/04/23
20	* Vhanmane Aarti Vilas	<u>AV</u>	<u>AV</u>
21	* Limkar Vaibhavi Balasaheb	<u>VL</u>	<u>VL</u>
22	* Kamble Vaishnavi Pradhan	<u>KV</u>	<u>KV</u>
23	* Banasode Shruti Roshan	<u>SRB</u>	<u>SRB</u>
24	Deshmukh Pratapsinh Bhausahab	<u>DS</u>	<u>DS</u>
25	Mali Namdev Dadasahab	<u>DM</u>	<u>DM</u>
26	Masal Rupesh Shivaji	<u>MR</u>	<u>MR</u>
27	* Mane Dipika Raju	<u>DM</u>	<u>DM</u>
28	Gaikwad Ritesh Laxman	<u>GR</u>	<u>GR</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>AD</u>	<u>AD</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 Vasanthaodada 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 Vasantraodada 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

  
**HEAD**  
 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**

---

- 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.

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

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



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



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

Course Co-Ordinator  
Dr. B. T. Jadhav

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 Sanika Machindra* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
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. *Chougule Ganesh Rajaram* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
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 Minal Kumar* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
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. *Kadam Snehal Dadaso* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
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. *Bedage Sakshi Sanjay* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
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 Pratiksha Hitendra* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
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 Pranali Baban* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

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 Vaishnavi Shivaji* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
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. *Limkar Vaibhavi Balasaheb* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
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. *Kamble Vaishnavi Pradhan* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
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. *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.

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
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. *Mane Dipika Raju* of Class *B. Sc. II* has successfully completed the Short Term Career Oriented Certificate Course entitled 'Nursery Management', and secured grade "A" during the academic year 2023-24.

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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



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

# DEPARTMENT OF BOTANY

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

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

Course Co-Ordinator  
Dr. B. T. Jadhav

Head  
Department of Botany  
Mr. T. G. Patil

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

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

**DEPARTMENT OF ZOOLOGY**

Career Oriented Course

in

**“Vermicomposting”**

(2023-24)

## INDEX

Sr. No.	Content	Page No.
1.	Permission Letter	2
2.	Notice for enrollment	3
3. ✓	Brochure	4
4.	Board of studies	5
5.	Objectives	6
	Duration	
	Eligibility of the student	
	Outcomes	
	Evaluation method	
6.	Syllabus	7
7.	Timetable	8-9
8.	Notice for starting the course	10
9.	List of students and attendance	11-14
10.	Notice for examination	15
11.	Theory Paper	16-20
12. ✓	Practical question paper	21
13. ✓	Photos	22
14.	Result	23-24
15.	Certificate	25
16.	One page report	26
17.	Summary	27

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".

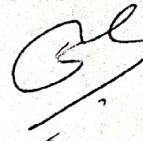
Respected sir,

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.**

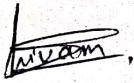
**Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.**

**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 Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

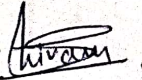
**DEPARTMENT OF ZOOLOGY**

Vermicomposting

Date: 01-08-2023

**NOTICE**

All the enrolled students are hereby informed that, the lectures of the course will be started from 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 Vasantroodada Patil Mahavidyalaya Kavathe Mahankal

To have basic knowledge of vermiculture, vermicomposting and vermiwash

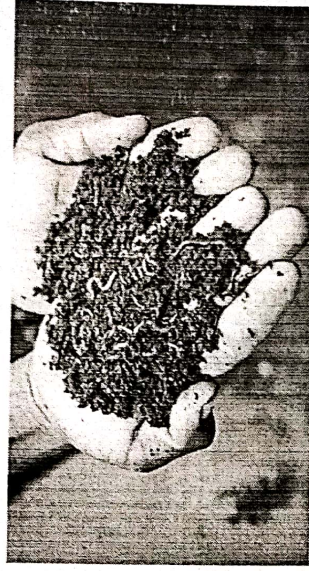


It helps to create organic manures which is useful to farmers for organic farming, by means of which it helps to provide healthy food and avoid pollution

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

To aware the peoples of natural resources and environment.

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



To acquaint students with some basic concepts of Vermicomposting

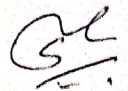
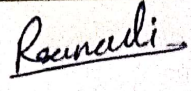

Aware students about the importance of organic manure.

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF ZOOLOGY

Data Analysis using MS Excel

Board of Studies

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

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

## **DEPARTMENT OF ZOOLOGY**

### **Vermicomposting**

#### **Objectives:**

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

#### **Duration:**

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

#### **Eligibility of the student:**

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

#### **Course outcomes:**

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

#### **Evaluation Method:**

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

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

## DEPARTMENT OF ZOOLOGY

### Vermicomposting

### Syllabus

#### Objectives and course outcomes:

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

#### Unit 1: Vermiculture

(08 hours)

**1.1 Introduction:** Vermiresources, Annelids useful for man and environment

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

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

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

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

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

#### 2 Unit 2: Vermicomposting

(7 hours)

##### A. Vermitechnology

##### I. Vermiculture

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

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

## **B. Vermicomposting**

### **I. Introduction**

### **II. Types of Earthworms suitable for vermicomposting.**

### **III. Shed construction**

### **IV. Various methods of Vermicomposting**

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

### **V. Study of Raw Materials for vermicomposting**

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

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

### **VI. Applications of Vermicompost in Agri & Horticulture**

**VII. Major ingredients and their percentage in vermicompost**

**VIII. Effect of vermicompost on soil fertility.**

**IX. Setting of a large vermicomposting unit**

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

**X. Vermiwash**

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

**XI. Benefits of Vermicomposting**

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

**XII. Environmental assessment**

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

**XIII. Marketing & Economy output.**

## PRACTICAL

### Paper I- Vermiculture

(08 hours)

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

### Paper II- Vermicomposting

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

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


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

**B. Sc. II and B.Sc. III**

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

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

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

  
Head

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

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. III)

Theory

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

*(Signature)*

Co-ordinator.

*(Signature)*

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

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. III) Practical

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

*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
13.	Naik Sachin Ganesh	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14.	Kshirsagar Rutesh Ganesh	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15.	Patil Sudhir Pratap	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB

*Signature*

Co-ordinator

*Signature*

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

DEPARTMENT OF ZOOLOGY

Vermicomposting

Attendance (B. Sc. II) Practical

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

*[Signature]*  
Co-ordinator.

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

15.

Mane Vishwajeet Santosh

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

## DEPARTMENT OF ZOOLOGY

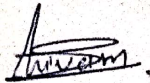
### Vermicomposting

Date: 01-11-2023

### NOTICE

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

Examination	Time
Theory and Practical	Tuesday 7 <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 Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.**

**DEPARTMENT OF ZOOLOGY**

**Data Analysis using MS Excel**

**Practical Examination**

**Duration: 3 Hours**

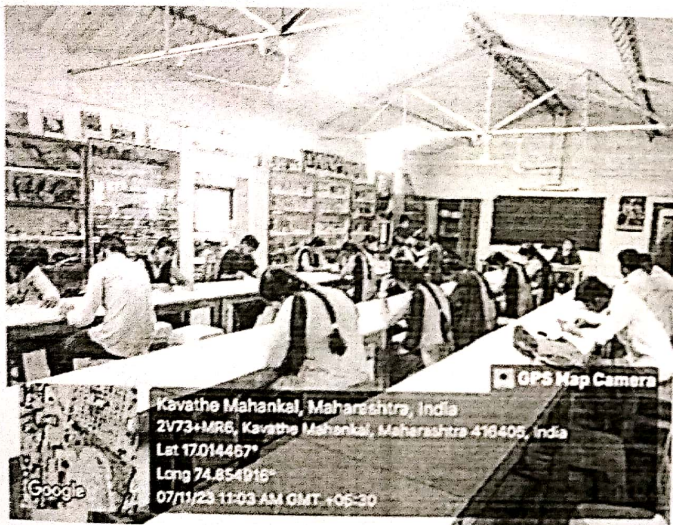
**Total Marks :50**

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

Que 1. Preparation of Vermibeds	<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

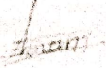



Shikshan Prasarak Sanstha's  
Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal  
Affiliated to Shivaji University, Kolhapur


## DEPARTMENT OF ZOOLOGY

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

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

  
Course Co-Ordinator  
Mr. S. P. Jaganade

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

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

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

## DEPARTMENT OF ZOOLOGY

### Report on Career Oriented Course in "Vermicomposting"

<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.
-------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------


Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal.

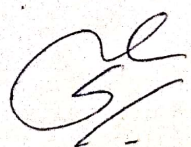
## DEPARTMENT OF ZOOLOGY

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	Male	Female	Total
	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