

"Dissemination of Education for Knowledge, Science, and Culture"  
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha,  
Kolhapur  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon

# **DEPARTMENT OF ZOOLOGY**

**CERTIFICATE COURSE ON  
"VERMICOMPOSTING  
BIOTECHNOLOGY"**

**2019-2020**

"Dissemination of Education through Knowledge, Science and Culture" Shikshanmaharshi Dr. Bapuji Salunkhe  
Shri Swami VivekanandShikshanSanstha's, Kolhapur  
**Padmbhushan Dr. Vasantodada Patil Mahavidyala, Tasgaon,**

**Department of Zoology**

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**NOTICE**

**29/12/2019**

All Staff members of zoology here by informed that the committee of B.O.S. will be decided in this meeting so that the presence of all staff should be essential. The meeting will be started on 20/11/2020 at 11 AM.

  
Head of Department

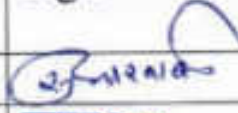





**HEAD,**  
**DEPARTMENT OF ZOOLOGY,**  
**PADMBHUSHAN DR. VASANTODADA PATIL**  
**MARWATERAAYA, TASGAON, DIST. SANGLI**

"Dissemination of Education through Knowledge, Science and Culture" Shikshanmaharshi Dr. Bapuji Salunkhe  
Shri Swami VivekanandShikshanSanstha's, Kolhapur  
**Padmbhushan Dr. Vasantraodada Patil Mahavidyala, Tasgaon,**  
**Department of Zoology**

**MEETING FOR SYLLABUS SETTING COMMITTEE**

**(B.O.S)**

The meeting of syllabus setting committee (B.O.S.) will be organized for the syllabus formation of ' Vermicompositing Biotechnology' certificate Course on 10/12/2019. The following members of the committee have to present for the syllabus setting.

Sr.No.	Name	Designation	Sign
1	Dr. Khabade S.A.	Chaiman	
2	Dr. Teli P.B.	Member	
3	Miss Bhandare P.S	Member	
4	Miss Gavali C.S.	Member	
5	Miss Patil P.P	Member	
6	Miss Kusarkar S.P.	Member	

Yours faithfully



Course coordinator

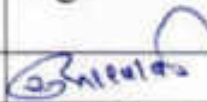





**HEAD**

**DEPARTMENT OF ZOOLOGY,**  
**PADMABHUSHAN DR. VASANTRAO DADA PATIL**  
**MAHVIDYALAYA, TASSAON DIST. RAJGIRI**

## Department of Zoology

### Minuets of Meeting

In the meeting of B.O.S. syllabus setting committee for 'Vermicompositing Biotechnology' certificate Course have decided and conformed the syllabus for this certificate course.

Sr.No.	Name	Designation	Sign
1	Dr. Khabade S.A.	Chaijman	
2	Dr. Teli P.B.	Member	
3	Miss Bhandare P.S	Member	
4	Miss Gavali C.S.	Member	
5	Miss Patil P.P	Member	
6	Miss Kusarkar S.P.	Member	

  
Head of Department

**HEAD**  
DEPARTMENT OF ZOOLOGY,  
PADMBHUSHAN DR. VASANTRAO DADA PATIL  
MAHAVIDYALAYA, TASGAON, DIST. SANGLI

**SHIVAJI UNIVERSITY, KOLHAPUR**  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's  
**Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon.**  
**Certificate Course In Vermicomposting Biotechnology.**  
**Dept. of Zoology**  
**2019-2020**

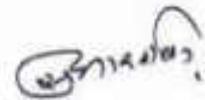
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**NOTICE**

29/12/2019

All the students of B.Sc. part **III** are hereby informed that the Certificate Course in "**Vermicomposting Biotechnology**" is started from 1/1/2020 up to 15/1/2020. The presence of this course is compulsory so attain the same.

Head of Department



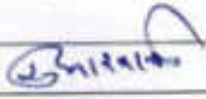





(Dr S.A.Khabade)

**HEAD**  
**DEPARTMENT OF ZOOLOGY,**  
**PADMABHUSHAN DR. VASANTODADA PATIL**  
**MAHAVIDYALAYA, TASGAON, DIST SANGLI**

## Department of Zoology

### Minuets of Meeting

In the meeting of B.O.S. formation following members and chairman were selected in this committee.

Sr.No.	Name	Designation	Sign
1	Dr. Khabade S.A.	Chairman	
2	Dr. Teli P.B.	Member	
3	Miss Bhandare P.S	Member	
4	Miss Gavali C.S.	Member	
5	Miss Patil P.P	Member	
6	Miss Kusarkar S.P.	Member	

  
Head of Department

**HEAD**  
DEPARTMENT OF ZOOLOGY,  
PADMABHUSHAN DR. VASANTRODADA  
MAHAYATILAYA, TASGAON

**PADMABHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA, TASGAON DIST. SANGLI  
(MAHARASHTRA)  
PIN. 416312**

**Title of the course**

**CERTIFICATE COURSE  
IN  
"VERMICOMPOSTING BIOTECHNOLOGY"**

**Organizer**

**DEPARTMENT OF ZOOLOGY**

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON  
DIST. SANGLI**

<b>Type of course unit</b>	:	Compulsory
<b>Duration of the course</b>	:	Six weeks
		1 <sup>st</sup> January 2020 to 15 February 2020
<b>Fees of the course</b>	:	300/-
<b>Delivery model</b>	:	Face to face
<b>Language of Instruction</b>	:	English/Marathi
<b>Course Co-ordinaor</b>	:	<b>Dr. Khabade S. A.</b>
<b>Course Co-coordinator</b>	:	<b>Dr. P. B. Teli.</b>
<b>Intake capacity</b>	:	25
<b>Who will apply</b>	:	10+2, B. Sc., B.Com., B.A., M.Sc.,M.Com.,M. A., Computer Science.
<b>Hourse of work</b>	:	33 Hrs
<b>Total hourse</b>	:	Theory- 24 , practical-09



**CERTIFICATE COURSE  
IN  
"VERMICOMPOSTING BIOTECHNOLOGY"**

**INTRODUCTION:**

The decomposition or stabilization of organic matter by the action of microorganism has been taking place in nature since life first appeared on earth. "Composting" means attempt to control and directly utilize the natural process for sanitary disposal and reclamation of organic waste material. The final product of composting is called "compost".

Vermicomposting truly is nature's great disappearing act. Vermiculture is the part of environmental biotechnology. Environmental biotechnology aims for bioconversion of organic wastes into resources which leads to protect the environment from getting polluted. Environmental biotechnology involves harnessing diverse desired species and strains of bacteria to convert organic wastes to value added products.

All animals are bioreactors of some kind, because they regulate the temperature, moisture, pH level of their own bodies to ensure their own survival. The main task is now to find an animal whose bioreactor functions correspond to the conditions that suit aerobic bacteria and such suitable animal which is easily available is the Earthworm. The Earthworm are known to inhabit the earth's soil since the Precambrian period about 600 million years ago. Charles Darwin (1881) first studied the role of Earthworms in breaking down of dead plant and animal residues because of their great importance in soil improvement. As early as 384 -322 B.C. the famous Greek philosopher Aristotle described Earthworms as "the intestine of earth". The gut of an Earthworm is a perfect natural bioreactor, which provides an ideal home for aerobic bacteria. Garbage's in which earthworm lives is not a Garbage for him but it is a habitat which he needs for getting nutritious food. Earthworms feed on bacteria present in organic matter (soil).

In 1985 Maharashtra Agricultural Bioteks, an organization that has initiated both commercial and educational ventures was formed and established a small plant to manufacture Vermicompost from agricultural waste. The organization currently produces 5000 tones of Vermicompost annually. In 1991 - 1992 Maharashtra Bioteks and the India department of Science and Technology promoted the adoption of Vermicompost technology in 13 States in India. The group has also established a Vermicompost unit with Chitrakoot Gramodaya University Madhya Pradesh which produces five tons of Vermicompost per month. Educational Institutes in Maharashtra and other states have started conducting Certificate/Diploma/Regular courses on vermiculture, vermiculture biotechnology and vermiculture and vermicompost technology. The duration of courses from 10 days to 6 months. The Department of zoology of P. D. V. P. Mahavidyalaya Tasgaon, Dist. Sangli, running six weeks (One and half months) "Vermicomposting Biotechnology" course.

## **Aims and Objectives-**

1. To get the knowledge of composting.
2. Students will create their own business.
3. Students can generate employments in organic fertilizer companies.
4. The students having own farms will turn towards organic farming.
5. Vermicompost technology will help to maintain the environment pollution free.
6. The course will help to get the knowledge of diversity of local earthworm species.
7. To convert unwanted organic matter particularly plant leaves , garbage and paper into fertile soil.

## **Details of the Course:**

<b>Name of the course</b>	<b>: Certificate course in Vermicomposting Biotechnology</b>
<b>Level</b>	<b>: Certificate</b>
<b>Stream</b>	<b>: Science and any stream</b>
<b>Subject</b>	<b>: Vermiculture/Vermicompost</b>
<b>Eligibility criteria</b>	<b>: 10+2, B. Sc., B. Com., B.A., M.Sc.,M.Com., M.A., Computer science</b>
<b>Duration of the course</b>	<b>: 1.5 Months i. e 6 weeks i. e 45 days</b>
<b>Language</b>	<b>: English/Marathi</b>
<b>Intake capacity</b>	<b>: 25 seats</b>
<b>Fees of the course</b>	<b>: 300/-</b>
<b>Selection /admission criteria: First come First serve</b>	
<b>Attendance</b>	<b>: 90%</b>
<b>Lecture/ practical time</b>	<b>: 5.00 to 6.00 pm</b>
<b>Academic calendar for the course: Five days in a week (4 days theory periods and 1 day practical)</b>	

**Available infrastructure:** Well equipped laboratory, small and large Scale Vermiculture units.

**Teaching staff** : Well qualified, experienced Guest Lecturers and Eminent professors will be invited

**Non teaching staff** : 01 Laboratory Assistant and 02 Laboratory Attendants

### **Examination structure & schedule:**

At the end of course the examination will be conducted. Its notice & time table will be displayed for communication to the students at least before 10 days of the date of examination.

1. Course VBT-01 Theory paper (objective/short answer type/Long answer type) = 50marks, Two hours duration.
2. Course VBT-02 Practical paper =50 marks, two hours duration

Marking scheme & Award of grades: Average of the marks obtained in each paper will be calculated as:  $50+50=100/2 = 50$ ;

- i) 8-10 marks = 1point, C' grade – pass;
- ii) 10-20 marks = 2 points, B' grade;
- iii) 20-30 marks = 3points, B+ grade;
- iv) 30-40 marks =4points, A' grade;
- v) 40-50 marks =5points, A+ grade

Award of Certificate carrying grades: after successful completion of course colorful certificate indicating grade will be awarded to the candidate.

**Reservation:** NA

## Course Content: Syllabus/Program SCHEME

Vermicomposting Biotechnology as one of the Certificate Course at Undergraduate, graduate and Post graduate students level

<b>Credit to be earned</b>	<b>04 credit</b>
Theory paper	03 credit
Practical course /paper	01 credit

### Proposed distribution of the course structure

Sr.No.	Code	Title of the paper Vermicomposting Biotechnology	Credit pattern in L:T:P	Credit value
1	VBTT-01	VBT Theory Related	3:0:0	03
2	VBTP-02	VBT Practical Related	0:0:1	01

Open selective course for any students enrolled in the College from different Disciplines

**Title of the Course:** Certificate Course in Vermicomposting Biotechnology

**Theory Course VBT-01**

**3 -Credits**

**Unit : I General Vermiculture / Vermicompost**

**6-hrs**

- 1) Introduction to Vermiculture, definition, History, Habitat diversity, ecology.
- 2) Varieties of Earthworms, Types of Earthworms (Endemic and Exotic species) suitable for vermicomposting, Economic importance of earthworms, Harmful activities of worms.
- 3) Key to identify Species of Earthworms.
- 4) Types of earthworms employed in vermicomposting.

**Unit: II Earthworm biology and Rearing**

**6 -hrs**

- 5) Biology of *Pheritima posthuma* (Indigenous or Indian earthworm). Systematic position, Habit and habitats, External features, Locomotion, Digestive system and Physiology of digestion, Reproductive system- Male and Female reproductive system, Copulation, Fertilization and Cocoon formation.
- 6) Biology of *Eudrilus eugeniae* (Exotic species) -Classification, Life cycle, Growth.
- 7) Biology of *Eisenia foetida* (Exotic species)- Classification, Odor, Related species. Reproduction, Lifecycle.

**Unit :III Vermicompost technology (Methods and products)**

**6-hrs**

- 8) Small scale vermiculture technique- Recycling of kitchen waste-
  - a) Preparation of vermiculture bed.
  - b) Treatment of kitchen waste using vermiculture beds.
- 9) Large scale commercial vermiculture farming- Basic requirements, Preparation of vermibeds, Collection of compost and separation of Earthworms, Vermiwash- Method of preparation, Chemical composition of wormicast.

#### Unit IV- Applied vermiculture

6-hrs

- 10) Effect of vermiwash on crop yield and quality of crops .
- 11) Enemies of earthworms.
- 12) Toxins released by the worms (Harmful effects).
- 13) Applications of vermicomposting.
- 14) Complimentary Activities of auto evaluation.

#### Practical course VBT -02

1-Credit

#### Practical Syllabus:

09 hrs

- 1) External morphology of earthworm *Pheretima posthuma*.
- 2) Different types of Earthworm species - Demonstration with the help of key.
- 3) Digestive system.
- 4) Reproductive system.
- 5) Demonstration of Life cycle and development.
- 6) Field trip- for collection of Endemic varieties.
- 7) Study of Habit and habitat, Systematic position and identification.
- 8) Study of vermiculture, vermiwash and vermicompost equipments and devices.
- 9) Preparation of vermibeds, maintainence of vermicompost and climatic conditions.
- 10) Harvesting, Packaging, Transport and Storage of vermicompost and Separation of life stages.
- 11) Study of diseases and enemies of earthworms.
- 12) Study of effect of vermicompost and vermiwash on any two short duration crops.

Total periods in hrs = Theory 06 hrs per unit x 4 units = 24hrs x 60 minutes =1440minutes+09 hrs for practical (i.e. 09x60 minutes =540 minutes); 1440+540 =1980 minutes.33hrs+5hrs in a week = 6.6 weeks duration i.e. 1.5 months (45 days)

Initially about 60days are required to set the culture or to form the vermicompost, later on in about 45 days, second culture will be formed. Students will observe 2 succeeding beds (rearing). Total days 60+45 = 105 days,( not recognized by UGC, for UGC 20 credits of which 10 credits for project/ field /work/training, it should be of 300 hrs, duration 6 months)

## Advantage of the Course & Future Prospects:

- I. Students can construct their own compost farm and can get monthly income of Rs.8000-9000.
- II. Students/ farmers by using vermicompost in their field can increase the crop yield.
- III. Students of urban areas can produce vermicompost in small scale for garden/household plants.
- IV. Students can get the jobs in private vermicomposting units , fertilizer companies and educational institutes as vermicompost/vermiculture technician.
- V. The candidate can generate income by supplying verms, vermiwash, and vermicompost.
- VI. By developing and propagating vermicompost technology he/she will directly or indirectly help to prevent environmental pollution.
- VII. It will lead towards organic farming & healthy food.
- VIII. 3R rules are necessary in order to sustain our health and environment. So let's apply 3R rule -Reduce, Reuse and Recycle.

## Reference books:

1. Bhatt J.V. & S.R. Khambata (1959) "Role of Earthworms in Agriculture" Indian Council of Agricultural Research, New Delhi
2. Dash, M.C., B.K.Senapati, P.C. Mishra (1980) " Vermis and Vermicomposting" Proceedings of the National Seminar on Organic Waste Utilization and Vermicomposting Dec. 5-8, 1984, (Part B), School of Life Sciences, Sambalpur University, Jyoti Vihar, Orissa.
3. Edwards, C.A. and J.R. Lofty (1977) "Biology of Earthworms" Chapman and Hall Ltd., London.
4. Lee, K.E. (1985) "Earthworms: Their ecology and Relationship with Soils and Land Use" Academic Press, Sydney.
5. Jabde P.V. (2005): Text Book Of Applied Zoology, Discovery publishing house, New Delhi 110002.
6. Jordan E.L. And Verma P.S. (2003): Invertebrate Zoology S. Chand and Company Ltd. New Delhi.
7. Kevin, A and K.E.Lee (1989) "Earthworm for Gardeners and Fisherman" (CSIRO, Australia, Division of Soils).
8. Rahudakar V. B. (2004). Gandul khatashivay Naisargeek Paryay, Atul Book Agency, Pune.
9. Satchel, J.E. (1983) "Earthworm Ecology" Chapman Hall, London.
10. Text book of Applied Zoology, Discovery publishing House, New Delhi.
11. Wallwork, J.A. (1983) "Earthworm Biology" Edward Arnold (Publishers) Ltd. London

**CERTIFICATE COURSE IN  
“VERMICOMPOSTING BIOTECHNOLOGY”  
ADMISSION –(2019-2020)**

Sr.No.	Name of The Students
1	Mr.Bhosale Akash Popat
2	Miss. Chavan Snehal Krushnarao
3	Miss.Ghotkar Komal Krushnarao
4	Miss . Gulig Snehal Hanmant
5	Miss.Jadhav Sonali Dadaso
6	Mr.Jadhav Suhas Shivaji
7	Miss. Kadam Reshma Bhanudas
8	Miss.Kamble Apeksha Suresh
9	Miss.Katkar Poonam Anil
10	Mr.Mulla Riyaj Akaram
11	Miss.Patil Kajal Mohan
12	Mr.Patil Saurabh Dilip
13	Miss. Patil Swapnali Sampatrao
14	Mr.Sadakale Vishavajeet Rajaram
15	Miss. Shinde Shital Janardan
16	Mr.Yadav Swapnil Arun
17	Miss. Devkar Aishwarya Rajendra
18	Mr .Kadam Rohit Ramesh
19	Miss.Yadav Komal Durvas

  
S.A. Khobale S.A.  
**Co-Ordinator**

**HEAD**  
**DEPARTMENT OF ZOOLOGY,**  
**PADMABHUSHAN DR. VASANTRAO DADA KHATKAR**  
**MAHARAJA KRISHNAJI MANGRUKTE SANGLI**



9/12/2020

EXPERIMENT:

No.

B.Sc III  
Theory

PAGE NO.

DATE

01] CHAVAN SNEHAL KRUSHNARAO

Snehal

2] Katkar Poonam Anil

Poonam

3] Jadhav Suhag Shivaji

Suhag  
9/12/20

4] Patil Sourabh Dilip

Sati

5] Bhosale Akash Popat

Akash

6] Mulla Riyaz Akram

Riyaz

7] Kadam Rohit Ramesh

Rohit

8] Sadakale Vishavajeet Rajaram

Vishavajeet

9] Yadav Swapnil Anam

Swapnil

10] Haddu Komal Durgas

Komal

11] Deshpande Aishwarya Rajendra

Aishwarya

12] Patil Swapnali Sampat

Patil

13] Ghotkar Komal Krushnarao

Komal

14] Jadhav Sonali Dadaso

Sonali

Dr. Khubade S.A.





"Dissemination of Education for Knowledge, Science & Culture"

Dr. Bapuji Salunkhe

**Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.**

(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,**

**TASGAON, TAL. TASGAON, DIST: SANGLI**

**( MAHARASHTRA)**

**PIN. 416312**

## ADMISSION FORM



1. Name of the student Mr. Jadhav Subhas Shivaji
2. Subject Zoology class B.sc. III
3. Date of birth 26 January 1999
4. Caste Hindu-Maratha
5. Permanent address A/p. Narsewadi, Tal. Tasgaon  
Dist. Sangli pin-code 416312
6. Contact Number 9765785268 / 7057353772
7. E-mail Jadhavs2157@gmail.com
8. Paid the fees of Rs.....on.....

Jadhav  
Signature of the student

B. Salunkhe  
Course co-ordinator

B. Salunkhe  
Head of the Department

B. Salunkhe  
Principal  
F. Principal  
Padmabhushan Dr. Vasantaoada Patil  
Mahavidyalaya, Tasgaon, Sangli

"Dissemination of Education for Knowledge, Science & Culture"

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**Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.**

(The Centenary Year of Shikshanmaharshi Dr. Bapuji Salunkhe)

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**TASGAON, TAL. TASGAON, DIST: SANGLI**

**( MAHARASHTRA)**

**PIN. 416312**

## ADMISSION FORM



1. Name of the student Mr. Patil Saurabh Dilip
2. Subject Zoology class B. sc. III
3. Date of birth 21 October 1998
4. Caste Hindu-Maratha
5. Permanent address A/p. Kanchanpur, Tal. Miraj,  
Dist. Sangli pin code - 416 306
6. Contact Number 8625913824
7. E-mail saurabhpatil032016@gmail.com
8. Paid the fees of Rs.....on.....

Sati

Signature of the student

[Signature]

Course co-ordinator

[Signature]

Head of the Department

[Signature]

Principal

DEPARTMENT OF ZOOLOGY,  
PADMABHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA, TASGAON, DIST. SANGLI

Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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(The Centenary Year of Shikshanmaharshi Dr. Bapuji Salunkhe)

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,**

**TASGAON, TAL. TASGAON, DIST: SANGLI**

**( MAHARASHTRA)**

**PIN. 416312**

## ADMISSION FORM



1. Name of the student Sadakale Vishavajeet Rajaram.
2. Subject ZOOLOGY class B.Sc.3.
3. Date of birth 13/07/1999.
4. Caste Hindu - Mang.
5. Permanent address A.P. Savarde - Tal - Tasgaon  
Dist - Sangli
6. Contact Number 935910 6971
7. E-mail Vishavajeet sadakale@gmail.com.
8. Paid the fees of Rs.....on.....

Signature of the student

Course co-ordinator

Head of the Department

Principal

DEPARTMENT OF ZOOLOGY,  
PADMA BHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA, TASGAON, (SANGLI)

Principal  
for Principal  
Padmabhushan Dr. Vasanttraodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,**

**TASGAON, TAL. TASGAON, DIST: SANGLI**

**( MAHARASHTRA)**

**PIN. 416312**

**ADMISSION FORM**



1. Name of the student Mr. Kadam Rohit Ramesh
2. Subject Zoology class BSC-III
3. Date of birth 8 Jan 2000
4. Caste Open
5. Permanent address A/P :- Gatewadi, Tal-  
Tasgaon, Dist :- Sangli.
6. Contact Number 84-59876754
7. E-mail rohithkadam763@gmail.com
8. Paid the fees of Rs.....on.....

Signature of the student

Course co-ordinator

Head of the Department

Principal

For Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

"Dissemination of Education for Knowledge, Science & Culture"

Dr. Bapuji Salunkhe

**Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.**

(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,**

**TASGAON, TAL. TASGAON, DIST: SANGLI**


**( MAHARASHTRA)**


**PIN. 416312**

**ADMISSION FORM**




1. Name of the student Miss Yadav Komal DUTVAS
2. Subject ZOOLOGY class B.Sc III
3. Date of birth 12 May 1999
4. Caste Hindu - Maratha
5. Permanent address A/P Gavahan Ta. Tasgaon  
Dist - sangli
6. Contact Number 8975695128
7. E-mail .....
8. Paid the fees of Rs.....on.....

  
Signature of the student

  
Course co-ordinator

  
Head of the Department

  
Principal  
for Principal  
Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)



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(The Centenary Year of Shikshanmaharshi Dr.Bapuji Salunkhe)

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,**

**TASGAON, TAL. TASGAON, DIST: SANGLI**

**( MAHARASHTRA)**

**PIN. 416312**

## **ADMISSION FORM**



1. Name of the student ..... Shinde Shital Janardan .....
2. Subject..... Zoology .....class..... B. SC-III .....
3. Date of birth..... 22/10/1997 .....
4. Caste..... VJNT .....
5. Permanent address..... Vrundavan Colony datta  
mal Tasgaon .....
6. Contact Number..... 7218105661 .....
7. E-mail..... Shitalshinde.957@gmail.com .....
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S Shinde  
Signature of the student

B. Salunkhe  
Course co-ordinator

B. Salunkhe  
Head of the Department

A. Shinde  
Principal  
for Principal

**HEAD**  
DEPARTMENT OF ZOOLOGY,  
PADMABHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA, TASGAON, DIST. SANGLI

Padmabhushan Dr. Vasanttraodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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Dr. Bapuji Salunkhe

**Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.**

(The Centenary Year of Shikshanmaharshi Dr. Bapuji Salunkhe)

**PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA,**

**TASGAON, TAL. TASGAON, DIST: SANGLI**

**( MAHARASHTRA)**

**PIN. 416312**

## **ADMISSION FORM**



1. Name of the student ..... Jadhav Sonali Dadaso .....
2. Subject..... Zoology ..... class..... B.SC III .....
3. Date of birth... 28 October 1999 .....
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Head of the Department

Principal

f- Principal

Padmabhushan Dr. Vasantao Dada Patil  
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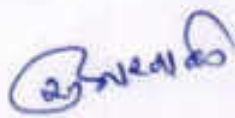
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## ADMISSION FORM



1. Name of the student Mr. Bhosale Akash Popat
2. Subject Zoology class B.sc. III
3. Date of birth 2 April 1999.
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1. Name of the student Mr. Mulla Riyaj Akram
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3. Date of birth 4 sept 1999
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RAMULLA  
Signature of the student

Bhuvan  
Course co-ordinator

Bhuvan  
Head of the Department  
HEAD

Patil  
Principal  
Principal  
Padmabhushan Dr. Vasanttraodada Patil  
Mahavidyalaya Sangli

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## **ADMISSION FORM**



1. Name of the student Mr. Yadav Swapnil Arun
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Jadav.  
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Swamida  
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Swamida  
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PADMABHUSHAN DR. VASANTRAODADA PATIL  
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Swamida  
Principal  
Principal  
Padmabhushan Dr. Vasantrodada Patil  
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**ADMISSION FORM**



1. Name of the student ..... *Miss - Patil Swapnali Sampatrao*
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*Patil*

Signature of the student

*B. Salunkhe*

Course co-ordinator

*Amanta*

Head of the Department

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*Amanta*  
**Principal**

**Principal**  
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1. Name of the student Miss. Ghotkar Komal krushnarao
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Head of the Department

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for Principal

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for Principal  
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**ADMISSION FORM**



1. Name of the student Miss Devkar Aishwarya Rajendra
2. Subject Zoology class 8-Sc III
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Signature of the student

Bhushan  
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Bhushan  
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**MAHAVIDYALAYA, TASGAON, SANGLI**

Ashad  
Principal  
for Principal  
Padmabhushan Dr. Vasantrodada Patil  
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## **ADMISSION FORM**



1. Name of the student ..... Katkar Poonam Anil .....
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Head of the Department

Principal

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## ADMISSION FORM



1. Name of the student ..... CHAVAN JNEHAL KRUSHNARAO
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Chavan

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Prakash

Course co-ordinator

Prakash

Head of the Department

Prakash

Principal

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Dr. Bapuji Salunkhe

**Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur.**

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**TASGAON, TAL. TASGAON, DIST: SANGLI**

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**PIN. 416312**

## ADMISSION FORM



1. Name of the student ..... *Gulig Snehal Harman* .....
2. Subject..... *Zoology* .....class..... *B.Sc. III* .....
3. Date of birth..... *11.15.2000* .....
4. Caste..... *S.C* .....
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Signature of the student

*Sankar*  
Course co-ordinator

*Sankar*  
Head of the Department

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DEPARTMENT OF ZOOLOGY,  
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MAHAVIDYALAYA, TASGAON, DIST. SANGLI

*Sankar*  
Principal  
Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, Dist. Sangli

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-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami VivekanandShikshanSanstha's, Kolhapur

Padmabhushan Dr. Vasanttraodada Patil Mahavidyalaya, Tasgaon.

Certificate Course In Vermicomposting Biotechnology.

Department of Zoology

2019-2020

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## Notice

15/02/2020

All the B. Sc. **III** students of Zoology Department are hereby informed that the exam based on **Vermicomposting Biotechnology** will be conducted during 17/2/2020 at 06.05 pm. Your presence is compulsory be noted seriously.

  
Dr. Khabade S. A.

(Dr. Khabade S. A.)

**HEAD**

**DEPARTMENT OF ZOOLOGY,  
PADMABHUSHAN DR. VASANTRAO DADA PATIL  
MAHAVIDYALAYA, TASGAON DIST. KOLHAPUR**

SHIVAJI UNIVERSITY, KOLHAPUR  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's  
Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon.  
Certificate Course In Vermicomposting Biotechnology.  
Dept. of Zoology  
VBT- 01 Theory Paper

20  
50  
10

Date- 17/02/2020

Marks-50

Q.1. Multiple choice questions

1. Vermicompost is an ..... fertilizer.  
a. Inorganic      b. Toxic       c. Organic      d. Synthetic
2. Earthworm is ..... Animal  
a. Unisexual       b. Dioecious      c. Viviparous      d. Monoecious
3. Clitellum has to play a role in.....  
a. Locomotion      b. Copulation      c. Burrowing       d. Cocoon formation
4. .... described earthworm as 'Intestine of earth'  
 a. Aristotle      b. Darwin      c. Mendel      d. Carl Linnaeus
5. Locomotory organ of earthworm is.....  
a. Parapodia      b. Suckers       c. Setae      d. Legs
6. Earthworm belongs to phylum.....  
a. Arthropoda      b. Mollusca       c. Annelida      d. Echinodermata
7. .... is indigenous species of earthworm.  
a. *Eudrilus eugenia*      b. *Esinla foetidia*  
 c. *Pheretema posthuma*      d. *Perionyx excavates*
8. Masticatory organ in earthworm is.....  
 a. Gizzard      b. Typhlosole      c. Intestinal caeca      d. Pharynx
9. Liquid obtained from earthworm is called as.....  
a. Waste      b. Urine       c. Vermiwash      d. Exotoxin
10. Septal nephridial contents get discharged in.....  
a. Pharynx      b. Stomach      c. Gizzard       d. Intestine

Q. 2. Short answer questions (Any Four)

(20)

1. Describe the process of vermibed construction .
2. Small scale Vermiculture technique.
3. Daily maintenance of vermicomposting bed.
4. Various types of composting materials.
5. Species diversity of earthworms used in Vermiculture.

Q. 3. Long answer questions (Any Two)

(20)

1. Describe with neat labeled diagram digestive system of earthworm.
2. Describe in detail process of vermiwash preparation and its applications.

Ques describe digestive system of earthworm.

Ans. The earthworm is an invertebrate belonging to the phylum Annelida. They are found in the soil and make it fertile. They feed on dead organic matter. Pheritima and Lumbricoides are the common earthworm found in India. The main characteristics of an earthworm are.

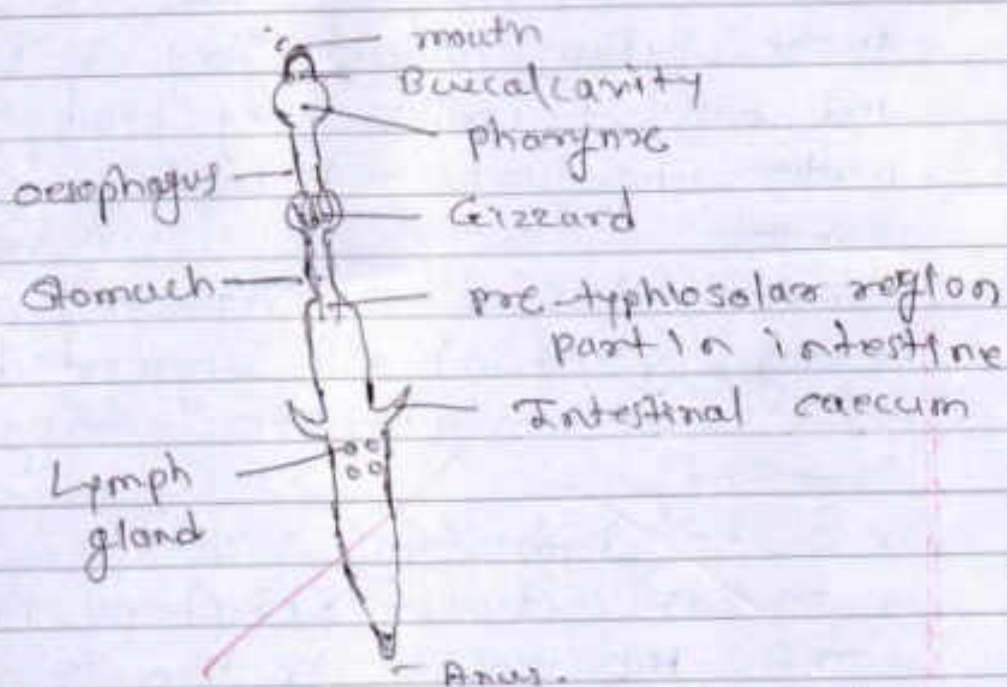
- Long, cylindrical and segmented body
- It is a hermaphrodite, having both male and female organs.
- It has hydrostatic skeleton.
- It has central & peripheral nervous system
- The setae present in the epidermal pits help in locomotion
- The epidermis is made up of columnar epithelial cells. It has secretory gland cells.
- The digestive system runs along with body.

Parts of alimentary canal :-

- 1) mouth
- 2) Buccal cavity
- 3) pharynx
- 4) oesophagus
- 5) gizzard
- 6) stomach
- 7) Intestine
- 8) Anus.

1) mouth :- mouth is the first segment called peristomium and covered by prostomium

The proctodaeum is sensory in nature.



Big digestive system of earthworm.

2) Buccal cavity :-

It extend from 2nd to 3rd segment. It is thin walled chamber. It is a thin It can retract & protrude out with the help. contraction of muscles attached to Body wall

3) Pharynx :-

It is thick-walled, pear shaped chamber, which extends till 4th segments. It is differentiated from Buccal chamber by a dorsal groove. where the brain of earthworm is present. The dorsal part of pharynx as pharyngeal pharyngeal Bulb.

#### ④ Oesophagus :-

Pharynx continue into oesophagus. It is small narrow thin tube like structure present on 5-7 segment. It passes food to Gizzard.

#### ⑤ Gizzard :-

It is present on 8-9 segment. It is highly muscular thick walled organ. It helps in the grinding soil particles and decaying leaves.

#### ⑥ Stomach :-

The stomach extends from 9-13 segments. It is a highly vascular and tubular structure. The pairs of calciferous glands are present in the segment 10-12, which produce carbonate of lime and helps in neutralising humic acid present in humus.

#### ⑦ Intestine.

It is a long thin walled tube present from the 15<sup>th</sup> segment till anus, i.e. last segment.

Intestine divided into 3 parts

- ① pre-typhlosolar region → 15-20 segd.
- ② Typhlosolar region - 23<sup>th</sup>-25<sup>th</sup> segd
- ③ post typhlosolar region - 25 segment.



9) Anus:-

It is small round aperture present in the last segment. The alimentary canal of an earthworm opens to the exterior through the anus.

10  
~~Answer~~

## Zoology Certificate Course In Zoology 2019-20

### Student Enrollment List For Certificate course in "Vermicomposting Biotechnology"

Sr.No	Roll No	Name Of the Students	Signature
1.	6102	BHOSALE AKASH POPAT	Bhosale A.P
2.	6103	CHAVAN SNEHAL KRUSHNARAO	Chavan S.K
3.	6104	GHOTKAR KOMAL KRUSHNARAO	K.K. Ghotkar
4.	6105	GULIG SNEHAL HANMANT	Gulig S.H
5.	6106	JADHAV SONALI DADASO	S.D. Jadhav
6.	6107	JADHAV SUHAS SHIVAJI (Ashatai)	Jadhav S.S
7.	6108	KADAM RESHMA BHANU/DAS	Kadam P.B.
8.	6109	KAMBLE APEKSHA SURESH	Kamble A.S
9.	6110	KATKAR POONAM ANIL	P.A. Katkar
10.	6111	MULLA RIYAJ AKRAM	Mulla
11.	6112	PATIL KAJAL MOHAN	Patil K.M
12.	6113	PATIL SOURABH DILIP	S.D. Patil
13.	6114	PATIL SWAPNALI SAMPATRAO	S.S. Patil
14.	6115	SADAKALE VAISHAVAJEET RAJARAM	Sadavale
15.	6116	SHINDE SHITAL JANARDAN	S.J. Shinde
16.	6117	YADAV SWAPNIL ARUN	S.Y. Yadav
17.	6330	DEVKAR AISHWARYA RAJENDRA	Devkar A.P
18.	6331	KADAM ROHIT RAMESH	R.P. Kadam
19.	6332	YADAV KOMAL DURVAS	Yadav K.A.
20.	6337	BANSODE PRADNYA ARUN	P.P. Bansode
21.	5816	JADHAV GAYATRI NANDKUMAR	G.N. Jadhav
22.	5817	JADHAV JYOTI AJINKYA	Joti A.J.
23.	5818	JADHAV POOJA SANJAY	P.S. Jadhav
24.	5819	JADHAV PRANALI RAGHUNATH	Jadhav P.P.
25.	5820	JADHAV PRANIT SHAHAJI	P.S. Jadhav
26.	5821	JADHAV RUSHIKESH ARUN	R.A. Jadhav
27.	5822	JADHAV SONALI BABAN	S.B. Jadhav
28.	5823	JADHAV SWAPNALI SUBHASH	Jadhav S.B

29.	5824	JAMADADE RUTUJA SUBHASH	Jamada R
30.	5825	KADAM ANIL DHANAJI	Kadam A
31.	5826	KAMBLE SHIVANI SANJAY	Kamble S
32.	5827	KHARADE ABHISHEK KHANDERA0	Kharade A
33.	5828	KHARADE ROHAN SHANKAR	Kharade R
34.	5829	LANDAGE SURAJ VITTHAL	Landage S
35.	5830	MAINKAR SNEHALI JAMBU	Mainkar S
36.	5831	MALI AISHWARYA ABASO	Mali A
37.	5832	MANE ANKITA ADHIKRAO	Mane A
38.	5833	MANE PRATHMESH PRAKASH	Mane P
39.	5834	MANE PRATIBHA MANIK	Mane P
40.	5835	MANE SAMRUDDHI MOHAN	Mane S
41.	5836	MANE SUPRIYA PRATAP	Mane S
42.	5837	MANE TRUPTI VIJAY	Mane T
43.	5838	MOHITE AMRUTA MANIK	Mohite A
44.	5839	MOHITE DILIP NETAJI	Mohite D
45.	5840	MOHITE SHITAL VIKAS	Mohite S
46.	5841	MOHITE SWAPNIL KISAN	Mohite S
47.	5842	MOHITE VEDANTI DILIP	Mohite V
48.	5843	MUJAWAR SANA AYUB	Mujawar S
49.	5844	NALAWADE VAISHNAVI MANIK	Nalawade V
50.	5845	NALWADE POOJA TANAJI	Nalwade P
51.	5846	PADWAL NISHA SAMBHAI	Padwal N
52.	5847	PATIL ADITYA SHRIKANT	Patil A
53.	5848	PATIL AISHWARYA SANTOSH	Patil A
54.	5849	PATIL ANURADHA ANANDRAO	Patil A
55.	5850	PATIL DHANAJI VIKAS	Patil D
56.	5851	PATIL DIPALI RAMCHANDRA	Patil D
57.	5852	PATIL DIVYA ARJUN	Patil D
58.	5853	PATIL KETAN JANARDAN	Patil K
59.	5854	PATIL KIRTI SURESH	Patil K
60.	5855	PATIL KOMAL BALASAHEB	Patil K
61.	5856	PATIL MANISHA SANJIT	Patil M
62.	5857	PATIL PRAJAKTA VINOD	Patil P
63.	5858	PATIL PRASAD KAILAS	Patil P
64.	5859	PATIL PRATHMESH DILIP	Patil P
65.	5860	PATIL PRATIKSHA RAVSAHEB	Patil P
66.	5861	PATIL RA'NADEEP PRADEEP	Patil R
67.	5862	PATIL ROHIT MAHADEV	Patil R

68	5863	PATIL ROHIT VIJAY	
69	5864	PATIL RUPALI PARASHARAM	
70	5865	PATIL RUTUJA SHIVAJI	
71	5866	PATIL RUTUJA VIJAY	
72	5867	PATIL SEEMA VASANT	
73	5868	PATIL SHIVANI AVINASH	
74	5869	PATIL SHUBHANGI SURESH	
75	5870	PATIL SUYASH KISHOR	
76	5871	PATIL UTKARSHA UTTAM	
77	5872	PATIL VAISHNAVI SAMPAT	
78	5873	PATIL VARSHARANI RAMCHANDRA	
79	5874	PATIL VISHAL ANKUSH	
80	5875	PATIL VISHAL EKNATH	
81	5876	PATIL VISHWAJIT KRISHNDEV	
82	5877	PAWAR PALLAVI NANASAHEB	
83	5878	PAWAR SHRADHA BALASAHEB	
84	5879	PAWAR VIJAY SUKHADEV	
85	5880	POL RUTVIK DIPAKRAO	
86	5881	SABALE ROHIT RAVASAHEB	
87	5882	SALUNKHE KOMAL SUNIL	
88	5883	SAPKAL KAJAL BABASO	
89	5884	SAYYAD ALISHA HAMID	
90	5885	SHELKE ABHIJIT SHANKAR	
91	5886	SHENDAGE ROHIT DILIP	
92	5887	SHINDE AJINKYA VASANT	
93	5888	SHINDE OMKAR VILAS	
94	5889	SHINDE PRAMOD SUBHASH	
95	5890	SHINDE RUTUJA ASHOK	
96	5891	SHIROTE SONIYA NITIN	
97	5892	SHIVANKAR TEJAS SANJAY	
98	5893	SURYAWANSHI POOJA HANMANT	
99	5894	SURYAWANSHI SNEHAL SANJAY	
100	5895	TAMBOLI MALIKABI ILAHI	
101	5896	TAWDAR OMKAR RAVINDRA	
102	5897	THORAVAT SHUBHAM SANJAY	
103	5898	TOUR SHRADDHA KAILAS	
104	5899	UGARE TEJASWINI SATISH	
105	5900	ZAMBRE RUTUJA RAVINDRA	

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HEAD  
DEPARTMENT OF ZOOLOGY,  
PRADYAKSHAN DR. Y.S. KATKAR COLLEGE, JYTH  
MAHARAJAJIYA, TARGON, DIST. SANGLI

# Zoology Certificate Course In Zoology 2019-20

## Presentee List For Certificate course in "Vermicomposting Biotechnology"

Sr.No	Roll No	Name Of the Students	Date											
			1/1/20	2/1/20	3/1/20	4/1/20	6/1/20	7/1/20	8/1/20	9/1/20	10/1/20	11/1/20		
1.	6102	BHOSALE AKASH POPAT	P	P	P	P	P	P	P	P	P	P	P	P
2.	6103	CHAVAN SNEHAL KRUSHNARAO	P	P	P	P	P	P	P	P	P	P	P	P
3.	6104	GHOTKAR KOMAL KRUSHNARAO	P	P	P	P	P	P	P	P	P	P	P	P
4.	6105	GULIG SNEHAL HANMANT	P	P	P	P	P	P	P	P	P	P	P	P
5.	6106	JADHAV SONALI DADASO	P	P	P	P	P	P	P	P	P	P	P	P
6.	6107	JADHAV SUHAS SHIVAJI (Ashvini)	P	P	P	P	P	P	P	P	P	P	P	P
7.	6108	KADAM RESHMA BHANUDAS	P	P	P	P	P	P	P	P	P	P	P	P
8.	6109	KAMBLE APEKSHA SURESH	P	P	P	P	P	P	P	P	P	P	P	P
9.	6110	KATKAR POONAM ANIL	P	P	A	P	P	P	P	P	P	P	P	P
10.	6111	MULLA RIYAJ AKRAM	P	P	P	P	P	P	P	P	P	P	P	P
11.	6112	PATIL KAJAL MOHAN	P	P	P	A	P	P	A	P	P	A	P	P
12.	6113	PATIL SOURABH DILIP	P	A	P	P	P	P	P	P	P	P	P	P
13.	6114	PATIL SWAPNALI SAMPATRAO	P	P	P	P	P	P	P	P	P	P	P	P
14.	6115	SADAKALE VAISHAVAJEET RAJARAM	P	P	P	P	P	P	P	P	P	P	P	P
15.	6116	SHINDE SHITAL JANARDAN	P	P	P	P	A	P	P	P	P	P	P	P
16.	6117	YADAV SWAPNIL ARUN	P	P	P	P	A	P	P	P	P	P	P	P
17.	6330	DEVKAR AISHWARYA RAJENDRA	P	P	P	P	P	P	A	P	A	P	P	P
18.	6331	KADAM ROHIT RAMESH	P	P	P	P	P	P	P	P	P	P	P	P
19.	6332	YADAV KOMAL DURVAS	P	P	P	P	P	P	P	P	P	P	P	P
20.	6337	BANSODE PRADNYA ARUN	P	P	P	P	P	P	P	P	P	P	P	P
21.	5816	JADHAV GAYATRI NANDKUMAR	P	P	P	P	P	P	P	P	P	P	P	P
22.	5817	JADHAV JYOTI AJINKYA	P	P	P	P	P	A	P	P	P	P	P	P
23.	5818	JADHAV POOJA SANJAY	P	P	P	P	P	P	P	P	P	P	P	P
24.	5819	JADHAV PRANALI RAGHUNATH	P	P	P	P	P	P	A	P	P	P	P	P
25.	5820	JADHAV PRANIT SHAHAJI	P	P	P	P	P	P	P	P	P	P	P	P
26.	5821	JADHAV RUSHIKESH ARUN	P	P	A	P	P	P	P	P	P	P	P	P
27.	5822	JADHAV SONALI BABAN	P	A	P	A	P	P	P	P	P	P	P	P

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28.	5823	JADHAV SWAPNALI SUBHASH	P	P	P	P	P	P	P	P	P	P	P
29.	5824	JAMADADE RUTUJA SUBHASH	P	P	P	P	P	P	P	P	P	P	P
30.	5825	KADAM ANIL DHANAJI	P	P	P	P	P	P	P	P	P	P	P
31.	5826	KAMBLE SHIVANI SANJAY	P	P	P	P	P	P	P	P	P	P	P
32.	5827	KHARADE ABHISHEK KHANDERAO	P	P	P	P	P	P	P	P	P	P	P
33.	5828	KHARADE ROHAN SHANKAR	P	P	P	P	P	P	A	P	P	P	P
34.	5829	LANDAGE SURAJ VITTHAL	P	P	P	P	P	P	P	P	P	P	P
35.	5830	MAINKAR SNEHALI JAMBU	P	P	P	P	P	P	A	P	P	P	P
36.	5831	MALI AISHWARYA ABASO	P	P	P	P	P	P	P	P	P	P	P
37.	5832	MANE ANKITA ADHIKRAO	P	P	P	P	P	P	P	P	P	P	P
38.	5833	MANE PRATHMESH PRAKASH	P	P	P	P	P	P	P	P	P	P	P
39.	5834	MANE PRATIBHA MANIK	P	A	P	P	P	P	A	P	P	P	P
40.	5835	MANE SAMRUDDHI MOHAN	P	P	A	P	P	P	P	P	P	P	P
41.	5836	MANE SUPRIYA PRATAP	P	P	P	P	P	P	P	P	P	P	P
42.	5837	MANE TRUPTI VIJAY	P	P	P	P	P	P	P	P	P	P	P
43.	5838	MOHITE AMRUTA MANIK	P	P	P	P	P	P	A	P	P	P	P
44.	5839	MOHITE DILIP NETAJI	P	P	P	P	P	P	P	P	P	P	P
45.	5840	MOHITE SHITAL VIKAS	P	P	P	P	P	P	P	P	P	P	P
46.	5841	MOHITE SWAPNIL KISAN	P	P	P	P	P	P	P	P	P	P	A
47.	5842	MOHITE VEDANTI DILIP	P	P	P	A	P	P	P	P	A	P	P
48.	5843	MUJAWAR SANA AYUB	P	P	P	P	P	P	P	P	P	P	P
49.	5844	NALAWADE VAISHNAVI MANIK	P	P	P	P	A	P	P	P	P	P	P
50.	5845	NALWADE POOJA TANAJI	P	P	P	P	P	P	P	P	P	P	P
51.	5846	PADWAL NISHA SAMBHAJI	P	P	P	P	P	P	P	P	P	P	P
52.	5847	PATIL ADITYA SHRIKANT	P	P	P	P	P	P	P	P	A	P	P
53.	5848	PATIL AISHWARYA SANTOSH	P	P	P	P	A	P	P	P	P	P	P
54.	5849	PATIL ANURADHA ANANDRAO	P	P	P	P	P	P	P	P	P	P	P
55.	5850	PATIL DHANAJI VIKAS	P	P	P	P	P	P	P	P	P	P	P
56.	5851	PATIL DIPALI RAMCHANDRA	P	P	P	P	P	P	A	P	P	P	P
57.	5852	PATIL DIVYA ARJUN	P	P	P	P	P	P	P	P	P	P	P
58.	5853	PATIL KETAN JANARDAN	P	P	P	P	A	P	A	P	P	P	P
59.	5854	PATIL KIRTI SURESH	P	P	P	P	P	P	P	P	P	P	P
60.	5855	PATIL KOMAL BALASAHEB	P	P	P	P	P	P	P	P	P	P	P
61.	5856	PATIL MANISHA SANJIT	P	P	P	P	P	P	P	P	P	P	P
62.	5857	PATIL PRAJAKTA VINOD	P	P	P	P	P	P	P	P	P	P	P
63.	5858	PATIL PRASAD KAILAS	P	P	P	P	P	P	P	P	P	P	P
64.	5859	PATIL PRATHMESH DILIP	P	P	P	P	P	P	A	P	P	P	P
65.	5860	PATIL PRATIKSHA RAVSAHEB	P	P	P	P	P	P	P	P	P	P	P
66.	5861	PATIL RATNADEEP PRADEEP	A	P	P	P	P	P	P	P	P	P	P

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67.	5862	PATIL ROHIT MAHADEV	P	P	P	P	P	P	A	P	P	P
68.	5863	PATIL ROHIT VIJAY	P	P	P	P	P	P	P	P	P	P
69.	5864	PATIL RUPALI PARASHARAM	P	P	P	P	P	P	P	P	P	P
70.	5865	PATIL RUTUJA SHIVAJI	P	P	P	P	P	P	P	P	P	P
71.	5866	PATIL RUTUJA VIJAY	P	P	P	P	P	P	P	P	P	P
72.	5867	PATIL SEEMA VASANT	P	P	P	P	P	P	P	P	P	P
73.	5868	PATIL SHIVANI AVINASH	P	P	P	P	P	P	A	P	P	P
74.	5869	PATIL SHUBHANGI SURESH	P	P	P	P	A	D	P	P	P	P
75.	5870	PATIL SUYASH KISHOR	P	P	P	P	P	P	P	P	P	P
76.	5871	PATIL UTKARSHA UTTAM	P	P	P	P	P	P	P	P	P	P
77.	5872	PATIL VAISHNAVI SAMPAT	P	P	P	P	P	P	P	P	P	P
78.	5873	PATIL VARSHARANI RAMCHANDRA	P	P	P	P	A	P	P	P	P	P
79.	5874	PATIL VISHAL ANKUSH	P	P	P	P	P	A	P	P	P	P
80.	5875	PATIL VISHAL EKNATH	P	A	P	P	A	P	P	P	P	P
81.	5876	PATIL VISHWAJIT KRISHNDEV	P	P	P	P	P	A	P	P	P	P
82.	5877	PAWAR PALLAVI NANASAHEB	P	P	P	P	P	P	P	P	P	P
83.	5878	PAWAR SHRADHA BALASAHEB	P	P	P	P	P	P	P	A	P	P
84.	5879	PAWAR VIJAY SUKHADEV	P	P	P	P	P	P	P	P	P	P
85.	5880	POL RUTVIK DIPAKRAO	P	P	A	P	P	P	P	P	P	P
86.	5881	SABALE ROHIT RAVASAHEB	P	P	P	P	P	P	P	P	P	P
87.	5882	SALUNKHE KOMAL SUNIL	P	P	P	P	A	P	P	P	P	P
88.	5883	SAPKAL KAJAL BABASO	P	P	P	P	A	P	P	P	P	P
89.	5884	SAYYAD ALISHA HAMID	P	P	P	P	P	A	P	P	P	P
90.	5885	SHELKE ABHJIT SHANKAR	A	P	P	P	P	P	P	P	P	A
91.	5886	SHENDAGE ROHIT DILIP	P	A	P	P	P	P	P	P	P	P
92.	5887	SHINDE AJENKYA VASANT	P	P	P	P	P	P	P	P	P	P
93.	5888	SHINDE OMKAR VILAS	P	P	P	P	P	P	P	P	P	P
94.	5889	SHINDE PRAMOD SUBHASH	P	P	P	P	P	P	P	P	P	P
95.	5890	SHINDE RUTUJA ASHOK	P	P	P	P	P	P	P	P	P	P
96.	5891	SHIROTE SONIYA NITIN	P	P	P	P	P	P	P	P	P	P
97.	5892	SHIVANKAR TEJAS SANJAY	P	P	P	P	A	P	A	P	P	P
98.	5893	SURYAWANSHI POOJA HANMANT	P	P	P	P	P	P	P	P	P	P
99.	5894	SURYAWANSHI SNEHAL SANJAY	P	P	P	P	P	P	P	P	P	P
100.	5895	TAMBOLI MALIKABI ILAHI	P	P	P	P	A	P	P	P	P	P
101.	5896	TAWDAR OMKAR RAVINDRA	P	P	P	P	P	P	P	P	P	P
102.	5897	THORAVAT SHUBHAM SANJAY	A	P	P	P	P	P	P	P	P	P
103.	5898	TOUR SHRADDHA KAILAS	P	P	P	P	P	P	P	P	P	P
104.	5899	UGARE TEJASWINI SATISH	P	P	P	P	P	P	P	P	P	P
105.	5900	ZAMBRE RUTUJA RAVINDRA	P	P	P	P	P	P	P	P	P	P

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67.	5862	PATIL ROHIT MAHADEV	P	P	P	P	P	P	P	P	P	P
68.	5863	PATIL ROHIT VIJAY	P	P	P	P	P	P	P	P	P	P
69.	5864	PATIL RUPALI PARASHARAM	P	P	P	P	P	P	P	P	P	P
70.	5865	PATIL RUTUJA SHIVAJI	P	P	P	P	P	P	P	P	P	P
71.	5866	PATIL RUTUJA VIJAY	P	P	P	P	P	P	P	P	P	P
72.	5867	PATIL SEEMA VASANT	P	P	P	P	P	P	P	P	P	P
73.	5868	PATIL SHIVANI AVINASH	P	P	P	P	P	P	P	P	P	P
74.	5869	PATIL SHUBHANGI SURESH	P	P	P	P	P	P	P	P	P	P
75.	5870	PATIL SUYASH KISHOR	P	P	P	P	P	P	P	P	P	P
76.	5871	PATIL UTKARSHA UTTAM	P	P	P	P	P	P	P	P	P	P
77.	5872	PATIL VAISHNAVI SAMPAT	P	P	P	P	P	P	P	P	P	P
78.	5873	PATIL VARSHARANI RAMCHANDRA	P	P	P	P	P	P	P	P	P	P
79.	5874	PATIL VISHAL ANKUSH	P	P	P	P	P	P	P	P	P	P
80.	5875	PATIL VISHAL EKNATH	P	P	P	P	P	P	P	P	P	P
81.	5876	PATIL VISHWAJIT KRISHNDEV	P	P	P	P	P	P	P	P	P	P
82.	5877	PAWAR PALLAVI NANASAHEB	P	P	P	P	P	P	P	P	P	P
83.	5878	PAWAR SHRADHA BALASAHEB	P	P	P	P	P	P	P	P	P	P
84.	5879	PAWAR VIJAY SUKHADEV	P	P	P	P	P	P	P	P	P	P
85.	5880	POL RUTVIK DIPAKRAO	P	P	P	P	P	P	P	P	P	P
86.	5881	SABALE ROHIT RAVASAHEB	P	P	P	P	P	P	P	P	P	P
87.	5882	SALUNKHE KOMAL SUNIL	P	P	P	P	P	P	P	P	P	P
88.	5883	SAPKAL KAJAL BABASO	P	P	P	P	P	P	P	P	P	P
89.	5884	SAYYAD ALISHA HAMID	P	P	P	P	P	P	P	P	P	P
90.	5885	SHELKE ABHIJIT SHANKAR	P	P	P	P	P	P	P	P	P	P
91.	5886	SHENDAGE ROHIT DILIP	P	P	P	P	P	P	P	P	P	P
92.	5887	SHINDE AJINKYA VASANT	P	P	P	P	P	P	P	P	P	P
93.	5888	SHINDE OMKAR VILAS	P	P	P	P	P	P	P	P	P	P
94.	5889	SHINDE PRAMOD SUBHASH	P	P	P	P	P	P	P	P	P	P
95.	5890	SHINDE RUTUJA ASHOK	P	P	P	P	P	P	P	P	P	P
96.	5891	SHIROTE SONIYA NITIN	P	P	P	P	P	P	P	P	P	P
97.	5892	SHIVANKAR TEJAS SANJAY	P	P	P	P	P	P	P	P	P	P
98.	5893	SURYAWANSHI POOJA HANMANT	P	P	P	P	P	P	P	P	P	P
99.	5894	SURYAWANSHI SNEHAL SANJAY	P	P	P	P	P	P	P	P	P	P
100.	5895	TAMBOLI MALIKABI ILAHI	P	P	P	P	P	P	P	P	P	P
101.	5896	TAWDAR OMKAR RAVINDRA	P	P	P	P	P	P	P	P	P	P
102.	5897	THORAVAT SHUBHAM SANJAY	P	P	P	P	P	P	P	P	P	P
103.	5898	TOUR SHRADDHA KAILAS	P	P	P	P	P	P	P	P	P	P
104.	5899	UGARE TEJASWINI SATISH	P	P	P	P	P	P	P	P	P	P
105.	5900	ZAMBRE RUTUJA RAVINDRA	P	P	P	P	P	P	P	P	P	P

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 P. H. U.

# Zoology Certificate Course In Zoology 2019-20

## Presentee List For Certificate course in "Vermicomposting Biotechnology"

Sr.No	Roll No	Name Of the Students	Date										
			13/1/20	14/1/20	15/1/20	16/1/20	17/1/20	18/1/20	20/1/20	22/1/20	23/1/20	24/1/20	
1.	6102	BHOSALE AKASH POPAT	P	P	P	P	P	P	P	P	P	P	P
2.	6103	CHAVAN SNEHAL KRUSHNARAO	P	P	P	P	P	P	P	P	P	P	P
3.	6104	GHOTKAR KOMAL KRUSHNARAO	P	P	P	P	P	P	P	P	P	P	P
4.	6105	GULIG SNEHAL HANMANT	P	P	P	P	P	P	P	P	P	P	P
5.	6106	JADHAV SONALI DADASO	P	P	P	P	P	P	P	P	P	P	P
6.	6107	JADHAV SUHAS SHIVAJI (Ashutosh)	P	P	P	P	P	P	P	P	P	P	P
7.	6108	KADAM RESHMA BHANUDAS	P	P	P	P	P	P	P	P	P	P	P
8.	6109	KAMBLE APEKSHA SURESH	P	P	P	A	P	P	P	P	P	P	P
9.	6110	KATKAR POONAM ANIL	P	P	P	P	P	P	P	P	P	P	P
10.	6111	MULLA RIYAJ AKRAM	P	P	A	P	P	P	P	P	P	P	P
11.	6112	PATIL KAJAL MOHAN	P	P	P	P	P	P	P	P	P	P	P
12.	6113	PATIL SOURABH DILIP	P	P	P	P	A	P	P	P	P	P	P
13.	6114	PATIL SWAPNALI SAMPATRAO	A	P	P	P	P	P	P	P	P	P	P
14.	6115	SADAKALE VAISHAVAJEET RAJARAM	P	P	A	P	P	P	P	P	P	P	P
15.	6116	SHINDE SHITAL JANARDAN	P	P	P	P	P	P	P	P	P	P	A
16.	6117	YADAV SWAPNIL ARUN	P	P	P	P	A	P	P	P	P	P	P
17.	6330	DEVKAR AISHWARYA RAJENDRA	P	P	P	P	P	P	P	P	P	P	P
18.	6331	KADAM ROHIT RAMESH	P	P	P	P	P	P	P	P	P	P	P
19.	6332	YADAV KOMAL DURVAS	P	P	P	P	P	P	P	P	P	P	P
20.	6337	BANSODE PRADNYA ARUN	P	P	P	P	P	P	P	P	P	P	P
21.	5816	JADHAV GAYATRI NANDKUMAR	P	P	P	A	P	P	P	P	P	P	P
22.	5817	JADHAV JYOTI AJINKYA	P	P	P	P	P	P	P	P	P	P	P
23.	5818	JADHAV POOJA SANJAY	P	P	P	P	P	P	P	P	P	P	P
24.	5819	JADHAV PRANALI RAGHUNATH	P	P	P	P	P	P	P	P	P	P	P
25.	5820	JADHAV PRANIT SHAHAJI	P	P	P	P	P	P	P	P	P	P	P
26.	5821	JADHAV RUSHIKESH ARUN	P	P	P	P	P	P	P	P	P	P	P
27.	5822	JADHAV SONALI BABAN	P	P	P	P	A	P	P	P	P	P	P





**Zoology Certificate Course In Zoology 2019-20**  
**Exam Attendance For Certificate course in**  
**“Vermicomposting Biotechnology”**

Sr.No	Roll No	Name Of the Students	Signature
1.	6102	BHOSALE AKASH POPAT	Bhosale AS
2.	6103	CHAVAN SNEHAL KRUSHNARAO	Chavan SK
3.	6104	GHOTKAR KOMAL KRUSHNARAO	Ghotkar K
4.	6105	GULIG SNEHAL HANMANT	Gulig SH
5.	6106	JADHAV SONALI DADASO	S.P. Jadhav
6.	6107	JADHAV SUHAS SHIVAJI (Asharti)	Jadhav S.S.
7.	6108	KADAM RESHMA BHANUDAS	Kadam P.B.
8.	6109	KAMBLE APEKSHA SURESH	Kamble AS
9.	6110	KATKAR POONAM ANIL	P.A. Katkar
10.	6111	MULLA RIYAJ AKRAM	Ramulla
11.	6112	PATIL KAJAL MOHAN	Patil KM
12.	6113	PATIL SOURABH DILIP	S.D. Patil
13.	6114	PATIL SWAPNALI SAMPATRAO	S.S. Patil
14.	6115	SADAKALE VAISHAVAJEET RAJARAM	Sadkale V.R.
15.	6116	SHINDE SHITAL JANARDAN	S.S. Shinde
16.	6117	YADAV SWAPNIL ARUN	Yadav SA.
17.	6330	DEVKAR AISHWARYA RAJENDRA	Devkar AP
18.	6331	KADAM ROHIT RAMESH	R.P. Kadam
19.	6332	YADAV KOMAL DURVAS	Yadav KD
20.	6337	BANSODE PRADNYA ARUN	P.P. Bansode
21.	5816	JADHAV GAYATRI NANDKUMAR	GN Jadhav
22.	5817	JADHAV JYOTI AJINKYA	Joti A.J.
23.	5818	JADHAV POOJA SANJAY	P.S. Jadhav
24.	5819	JADHAV PRANALI RAGHUNATH	Jadhav P.P.
25.	5820	JADHAV PRANIT SHAHAJI	P.S. Jadhav
26.	5821	JADHAV RUSHIKESH ARUN	P.A. Jadhav
27.	5822	JADHAV SONALI BABAN	S.P. Jadhav
28.	5823	JADHAV SWAPNALI SUBHASH	Jadhav S.S.
29.	5824	JAMADADE RUTUJA SUBHASH	

30.	5825	KADAM ANIL DHANAJI	J Kadam
31.	5826	KAMBLE SHIVANI SANJAY	Kamble
32.	5827	KHARADE ABHISHEK KHANDERAO	Kharade
33.	5828	KHARADE ROHAN SHANKAR	Kharade
34.	5829	LANDAGE SURAJ VITTHAL	Landage
35.	5830	MAINKAR SNEHALI JAMBU	Mainkar
36.	5831	MALI AISHWARYA ABASO	Mali
37.	5832	MANE ANKITA ADHIKRAO	Mane
38.	5833	MANE PRATHMESH PRAKASH	Mane
39.	5834	MANE PRATIBHA MANIK	Mane
40.	5835	MANE SAMRUDDHI MOHAN	Mane
41.	5836	MANE SUPRIYA PRATAP	Mane
42.	5837	MANE TRUPTI VIJAY	Mane
43.	5838	MOHITE AMRUTA MANIK	Mohite
44.	5839	MOHITE DILIP NETAJI	Mohite
45.	5840	MOHITE SHITAL VIKAS	Mohite
46.	5841	MOHITE SWAPNIL KISAN	Mohite
47.	5842	MOHITE VEDANTI DILIP	Mohite
48.	5843	MUJAWAR SANA AYUB	Mujawar
49.	5844	NALAWADE VAISHNAVI MANIK	Nalawade
50.	5845	NALWADE POOJA TANAJI	Nalawade
51.	5846	PADWAL NISHA SAMBHAJI	Padwal
52.	5847	PATIL ADITYA SHRIKANT	Patil
53.	5848	PATIL AISHWARYA SANTOSH	Patil
54.	5849	PATIL ANURADHA ANANDRAO	Patil
55.	5850	PATIL DHANAJI VIKAS	Patil
56.	5851	PATIL DIPALI RAMCHANDRA	Patil
57.	5852	PATIL DIVYA ARJUN	Patil
58.	5853	PATIL KETAN JANARDAN	Patil
59.	5854	PATIL KIRTI SURESH	Patil
60.	5855	PATIL KOMAL BALASAHEB	Patil
61.	5856	PATIL MANISHA SANJIT	Patil
62.	5857	PATIL PRAJAKTA VINOD	Patil
63.	5858	PATIL PRASAD KAILAS	Patil
64.	5859	PATIL PRATHMESH DILIP	Patil
65.	5860	PATIL PRATIKSHA RAVSAHEB	Patil
66.	5861	PATIL RATNADEEP PRADEEP	Patil
67.	5862	PATIL ROHIT MAHADEV	Patil
68.	5863	PATIL ROHIT VIJAY	Patil

69.	5864	PATIL RUPALI PARASHARAM	<u>Patil Rupali</u>
70.	5865	PATIL RUTUJA SHIVAJI	<u>Patil Rutuja</u>
71.	5866	PATIL RUTUJA VIJAY	<u>Rav</u>
72.	5867	PATIL SEEMA VASANT	<u>PATIL Sev</u>
73.	5868	PATIL SHIVANI AVINASH	<u>Patil S</u>
74.	5869	PATIL SHUBHANGI SURESH	<u>Shubang</u>
75.	5870	PATIL SUYASH KISHOR	<u>Patil Suyash</u>
76.	5871	PATIL UTKARSHA UTTAM	<u>Patil Utkarsha</u>
77.	5872	PATIL VAISHNAVI SAMPAT	<u>Varsharaj</u>
78.	5873	PATIL VARSHARANI RAMCHANDRA	<u>Varsh</u>
79.	5874	PATIL VISHAL ANKUSH	<u>Vishal</u>
80.	5875	PATIL VISHAL EKNATH	<u>Patil Vishal</u>
81.	5876	PATIL VISHWAJIT KRISHINDEV	<u>Vishal</u>
82.	5877	PAWAR PALLAVI NANASAHEB	<u>Pawar Pallavi</u>
83.	5878	PAWAR SHRADHA BALASAHEB	<u>Pawar Shradha</u>
84.	5879	PAWAR VIJAY SUKHADEV	<u>Pawar Vijay</u>
85.	5880	POL RUTVIK DIPAKRAO	<u>Pol Rutvik</u>
86.	5881	SABALE ROHIT RAVASAHEB	<u>Sabale Rohit</u>
87.	5882	SALUNKHE KOMAL SUNIL	<u>S + B</u>
88.	5883	SAPKAL KAJAL BABASO	<u>Kajal Sapkal</u>
89.	5884	SAYYAD ALISHA HAMID	<u>Sapkal Alisha</u>
90.	5885	SHELKE ABHIJIT SHANKAR	<u>Shelke Abhijit</u>
91.	5886	SHENDAGE ROHIT DILIP	<u>Shendage Rohit</u>
92.	5887	SHINDE AJINKYA VASANT	<u>Shinde Ajinkya</u>
93.	5888	SHINDE OMKAR VILAS	<u>Shinde Omkar</u>
94.	5889	SHINDE PRAMOD SUBHASH	<u>Shinde Pramod</u>
95.	5890	SHINDE RUTUJA ASHOK	<u>Shinde Rutuja</u>
96.	5891	SHIROTE SONIYA NITIN	<u>Shirote Soniya</u>
97.	5892	SHIVANKAR TEJAS SANJAY	<u>Shivankar Tejas</u>
98.	5893	SURYAWANSHI POOJA HANMANT	<u>Suryawanshi Pooja</u>
99.	5894	SURYAWANSHI SNEHAL SANJAY	<u>Suryawanshi Snehal</u>
100.	5895	TAMBOLI MALIKABI ILAHI	<u>Tamboli Malika</u>
101.	5896	TAWDAR OMKAR RAVINDRA	<u>Tawdar Omkar</u>
102.	5897	THORAVAT SHUBHAM SANJAY	<u>Thoravat Shubham</u>
103.	5898	TOUR SHRADDHA KAILAS	<u>Tour Shradha</u>
104.	5899	UGARE TEJASWINI SATISH	<u>Ugare Tejas</u>
105.	5900	ZAMBRE RUTUJA RAVINDRA	<u>Zambre Rutuja</u>

B. M. D. K.

**HEAD**  
DEPARTMENT OF ZOOLOGY,  
PAOMABHISHAN DR. VASANTRAO DADA JETTI  
MAHAWIDYALAYA, TASSAOLI DIST. SANGLI



**Zoology Certificate Course 2019-20**

**Mark List For Certificate course in "Vermicomposting  
Biotechnology"**

Sr.No	Roll No	Name Of the Students	Marks
1.	6102	BHOSALE AKASH POPAT	49
2.	6103	CHAVAN SNEHAL KRUSHNARAO	48
3.	6104	GHOTKAR KOMAL KRUSHNARAO	45
4.	6105	GULIG SNEHAL HANMANT	48
5.	6106	JADHAV SONALI DADASO	46
6.	6107	JADHAV SUHAS SHIVAJI (Ashatai)	49
7.	6108	KADAM RESHMA BHANUDAS	48
8.	6109	KAMBLE APEKSHA SURESH	47
9.	6110	KATKAR POONAM ANIL	46
10.	6111	MULLA RIYAJ AKRAM	45
11.	6112	PATIL KAJAL MOHAN	46
12.	6113	PATIL SOURABH DILIP	47
13.	6114	PATIL SWAPNALI SAMPATRAO	47
14.	6115	SADAKALE VAISHAVAJEET RAJARAM	48
15.	6116	SHINDE SHITAL JANARDAN	48
16.	6117	YADAV SWAPNIL ARUN	49
17.	6330	DEVKAR AISHWARYA RAJENDRA	45
18.	6331	KADAM ROHIT RAMESH	46
19.	6332	YADAV KOMAL DURVAS	47
20.	6337	BANSODE PRADNYA ARUN	48
21.	5816	JADHAV GAYATRI NANDKUMAR	47
22.	5817	JADHAV JYOTI AJINKYA	46
23.	5818	JADHAV POOJA SANJAY	45
24.	5819	JADHAV PRANALI RAGHUNATH	45
25.	5820	JADHAV PRANIT SHAHAJI	46
26.	5821	JADHAV RUSHIKESH ARUN	47

27.	5822	JADHAV SONALI BABAN	48
28.	5823	JADHAV SWAPNALI SUBHASH	47
29.	5824	JAMADADE RUTUJA SUBHASH	48
30.	5825	KADAM ANIL DHANAJI	47
31.	5826	KAMBLE SHIVANI SANJAY	48
32.	5827	KHARADE ABHISHEK KHANDERAO	49
33.	5828	KHARADE ROHAN SHANKAR	49
34.	5829	LANDAGE SURAJ VITTHAL	48
35.	5830	MAINKAR SNEHALI JAMBU	49
36.	5831	MALI AISHWARYA ABASO	48
37.	5832	MANE ANKITA ADHIKRAO	47
38.	5833	MANE PRATHMESH PRAKASH	46
39.	5834	MANE PRATIBHA MANIK	45
40.	5835	MANE SAMRUDDHI MOHAN	46
41.	5836	MANE SUPRIYA PRATAP	47
42.	5837	MANE TRUPTI VIJAY	48
43.	5838	MOHITE AMRUTA MANIK	49
44.	5839	MOHITE DILIP NETAJI	45
45.	5840	MOHITE SHITAL VIKAS	46
46.	5841	MOHITE SWAPNIL KISAN	47
47.	5842	MOHITE VEDANTI DILIP	48
48.	5843	MUJAWAR SANA AYUB	49
49.	5844	NALAWADE VAISHNAVI MANIK	49
50.	5845	NALWADE POOJA TANAJI	49
51.	5846	PADWAL NISHA SAMBHAJI	49
52.	5847	PATIL ADITYA SHRIKANT	48
53.	5848	PATIL AISHWARYA SANTOSH	47
54.	5849	PATIL ANURADHA ANANDRAO	46
55.	5850	PATIL DHANAJI VIKAS	45
56.	5851	PATIL DIPALI RAMCHANDRA	47
57.	5852	PATIL DIVYA ARJUN	47
58.	5853	PATIL KETAN JANARDAN	46
59.	5854	PATIL KIRTI SURESH	46
60.	5855	PATIL KOMAL BALASAHEB	46
61.	5856	PATIL MANISHA SANJIT	45
62.	5857	PATIL PRAJAKTA VINOD	46
63.	5858	PATIL PRASAD KAILAS	46
64.	5859	PATIL PRATHMESH DILIP	46
65.	5860	PATIL PRATIKSHA RAVSAHEB	46

66.	5861	PATIL RATNADEEP PRADEEP	47
67.	5862	PATIL ROHIT MAHADEV	46
68.	5863	PATIL ROHIT VIJAY	46
69.	5864	PATIL RUPALI PARASHARAM	46
70.	5865	PATIL RUTUJA SHIVAJI	47
71.	5866	PATIL RUTUJA VIJAY	45
72.	5867	PATIL SEEMA VASANT	46
73.	5868	PATIL SHIVANI AVINASH	46
74.	5869	PATIL SHUBHANGI SURESH	47
75.	5870	PATIL SUYASH KISHOR	48
76.	5871	PATIL UTKARSHA UTTAM	48
77.	5872	PATIL VAISHNAVI SAMPAT	49
78.	5873	PATIL VARSHARANI RAMCHANDRA	48
79.	5874	PATIL VISHAL ANKUSH	48
80.	5875	PATIL VISHAL EKNATH	47
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82.	5877	PAWAR PALLAVI NANASAHEB	47
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84.	5879	PAWAR VIJAY SUKHADEV	48
85.	5880	POL RUTVIK DIPAKRAO	49
86.	5881	SABALE ROHIT RAVASAHEB	48
87.	5882	SALUNKHE KOMAL SUNIL	49
88.	5883	SAPKAL KAJAL BABASO	49
89.	5884	SAYYAD ALISHA HAMID	45
90.	5885	SHELKE ABHIJIT SHANKAR	46
91.	5886	SHENDAGE ROHIT DILIP	46
92.	5887	SHINDE AJINKYA VASANT	47
93.	5888	SHINDE OMKAR VILAS	48
94.	5889	SHINDE PRAMOD SUBHASH	49
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96.	5891	SHIROTE SONIYA NITIN	49
97.	5892	SHIVANKAR TEJAS SANJAY	49
98.	5893	SURYAWANSHI POOJA HANMANT	49
99.	5894	SURYAWANSHI SNEHAL SANJAY	48
100.	5895	TAMBOLI MALIKABI ILAHI	48
101.	5896	TAWDAR OMKAR RAVINDRA	48
102.	5897	THORAVAT SHUBHAM SANJAY	48
103.	5898	TOUR SHRADDHA KAILAS	48
104.	5899	UGARE TEJASWINI SATISH	49
105	5900	ZAMBRE RUTUJA RAVINDRA	48

  
 HEAD  
 DEPARTMENT OF ZOOLOGY,  
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