



Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI



Department of Zoology
"Certificate Course in Vermiculture"

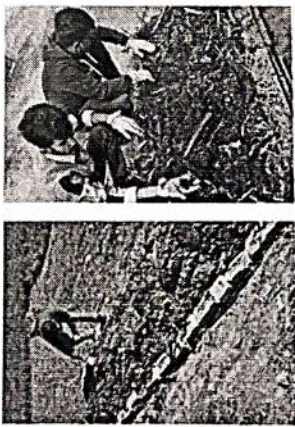
Academic Year: 2025-26

INDEX

Sr. No.	Content
1.	Notice
2.	Objectives and learning outcomes
3.	Syllabus
4.	Workload distribution
5.	Time – Table
6.	List of Participants
7.	Attendance
8.	Report
9.	Certificate

JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVIDYALAYA, WAI DEPARTMENT OF ZOOLOGY



Paper: (50 Marks)
Practical: (50 Marks)
On site Visit Vermiculture @ Kisan
Veer Mahavidyalaya, Wai



Eligibility: B.Sc. I/ II/ III Appear
Intake capacity: 20 + 20 = 40
Duration - 30 hr.
Fees : 500/- only

CERTIFICATE COURSE IN VERMICULTURE 2025-26



Vermiculture



1. Advantages of Vermicomposting

The principal advantages of vermicomposting are:

1. Aids in plant development, germination, and crop yield.
2. Enhances the soil's physical structure.
3. By using vermicompost, the soil becomes more fertile and water-resistant.
4. Develops the plant's roots.
5. Provides auxins, gibberellic acid, and other plant growth hormones to the soil as fertilizer.

[Signature]
PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Solapur

Learning Objectives of the Course

- To introduce career and market oriented skill enhancing for job, self-employment and student's employment.
- To focus on quality and excellence.
- Knowledge, skill and attitude for gainful employment in the wage sector in general and self-employment in particular.
- To make the current Indian higher education system more relevant and career oriented with.
- At the end of the course the students will be equipped with a certificate in add on orientation with a conventional degree of Science or commerce.

Contact

Prof. Dr. D. N. Zambare
Course Co-Ordinator and
Head, Department of Zoology
Cell : 9890891947

[Signature]
Head

Department of Zoology
Kisan Veer Mahavidyalaya
Wai 412803





JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVIDYALAYA, WAI DEPARTMENT OF ZOOLOGY



Paper: (50 Marks)
Practical: (50 Marks)
On site Visit Vermiculture @ Kisan
Veer Mahavidyalaya, Wai



Eligibility : B.Sc. I/ II/ III Appear
Intake capacity : 20 + 20 = 40
Duration - 30 hr.
Fees : 500/- only



CERTIFICATE COURSE IN VERMICULTURE
2025-26

Vermiculture



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[Signature]
PRINCIPAL
KISAN VEER MAHAVIDYALAYA,
Wai, Dist. Satara

Learning Objectives of the Course

- To introduce career and market oriented skill enhancing for job, self-employment and student's employment •
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Department of Zoology
Kisan Veer Mahavidyalaya,
Wai 412803

[Signature]
Head

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai






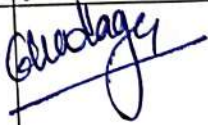
Department of Zoology

Year: 2025-26

CERTIFICATE COURSE IN VERMICULTURE

Notice

The meeting of the Board of Studies of Zoology will be held on Saturday 10 May 2025 at 11:00 am in the Department of Zoology. The meeting will be chaired by Prof. Dr. D. N. Zambare, Co-ordinator and Head, Department of Zoology, Kisan Veer Mahavidyalaya, Wai. All the members are advised to attend meeting.

Sr. No.	Name	Designation	Position	Signature
1	Prof. Dr. D. N. Zambare	Head Department of Zoology Kisan Veer Mahavidyalaya, Wai	Chairperson	
2	Dr. Mrs. Ingawle M.V.	Head Department of Botany Kisan Veer Mahavidyalaya, Wai	Member	
3	Mr. Tayade R. R.	Asst. Prof. Department of Zoology Kisan Veer Mahavidyalaya, Wai	Member	
4	Dr. Mrs. Shewale A. S.	Asst. Prof. Department of Zoology Kisan Veer Mahavidyalaya, Wai	Member	
5	Mr. Chavan S. S.	Asst. Prof. Department of Zoology Kisan Veer Mahavidyalaya, Wai	Member	
6	Ms. Ghadage J. M.	Asst. Prof. Department of Zoology Kisan Veer Mahavidyalaya, Wai	Member	

Agenda:

1. To recommended to the college Development Committee through the Principal the introduction of new Certificate Course/s.
2. To recommended to the college Development Committee through the Principal the discontinuation of earlier Certificate Course.
3. To recommended to the Principal of course syllabi, course structure & evaluation scheme of new Certificate course.
4. To recommended the reference books and other study material to be used for the study of the Course/s.
5. Any other subject with the permission of the Chair.



Course Co-Ordinator



Head

Department of Zoology
Kisan Veer Mahavidyalaya.
Head,
Wai 412803
Department of Zoology



PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara
Principal



Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Zoology

Year: 2025-26

CERTIFICATE COURSE IN VERMICULTURE

Objectives of the course -

1. To aware student about importance of Vermiculture and Vermicomposting.
2. To make student self-entrepreneurs / employed by imparting them skill to set up and run vermicomposting unit at commercial level.
3. To generate employment for rural illiterate men and women.

Outcome of the course-

1. Student will get in depth knowledge about Vermitechnology.
2. Student can get self-employment.
3. Student generates rural employment for rural men and women.

Reference Books:-

1. Text book of invertebrate Zoology - Kotpal.
2. Text book of practical invertebrate Zoology. - Kotpal.
3. Economic Zoology- C.B. Pandey.
4. Text book of Vermitechnology- S.S. Patil.
5. Earthworm- type study- Agarwal.

Board of studies-

1. Prof. Dr. Zambare D. N. (Co-ordinator and Head Department of Zoology)
2. Dr. Mrs. Ingawle M. V.
3. Mr. Tayade R. R.
4. Dr. Mrs. Shewale A. S.
5. Mr. Chavan S. S.
6. Ms. Ghadage J. M.



Course Co-Ordinator



Head

Department of Zoology
Kisan Veer Mahavidyalaya,
Wai-412803

Department of Zoology



PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Principal Satara





Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI



Department of Zoology
"Certificate Course in Vermiculture"
Academic Year: 2025-26

NOTICE

All the students (B.Sc. I, II and III) of Zoology Department are hereby informed that, the certificate course in Vermiculture will be conducted from 17th July 2025 to 13th March 2026. All the students should remain present for the lectures in time.



Course Co-Ordinator

Head

Department of Zoology
Kisan Veer Mahavidyalaya,
Wai 412803
Department of Zoology

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Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai

Department of Zoology

Year: 2025-26

CERTIFICATE COURSE IN VERMICULTURE

Syllabus: - Theory

Course Objectives (COs): Vermiculture

1. The course, Vermiculture is aimed at acquiring knowledge about vermiculture, and its importance.
2. It is aimed at understanding the biology of earthworm and earthworm culture.
3. It is aimed to enable the students to become familiar with the procedure of setting up a vermicomposting bed.
4. It is aimed so that the students can use the vermicompost and vermiwash in their fields.

Unit I

(10 Hrs)

1. Introduction to vermiculture: definition, meaning, history
2. Different useful species of earthworms, local and exotic species of earthworms
3. Role of earthworms in soil ecosystem
4. Basic characteristics of earthworms suitable for vermicomposting.

Unit II

(10 Hrs)

1. Biology of earthworm: Habit habitat, Systematic position, Morphology, General body plan
2. Reproduction and Life cycle of an earthworm
3. Methods of vermicomposting: (a) Low-cost floor beds, (b) Tank system

1. Material required for vermicomposting
2. Ideal conditions required for vermiculture: Temperature, pH, Moisture

Unit III

(10 Hrs)

1. Procedure for vermicomposting
2. Harvesting the products of vermiculture: Earthworms, Vermicompost, Vermiwash
3. Vermicompost: Properties, Uses, role in the growth of plants
4. Vermiwash: Utility in agriculture
5. Enemies and diseases of earthworms and their management
6. Economic importance of vermiculture and potential of entrepreneurship

References:

1. Dr. Keshav Singh (2022). Textbook of Vermicompost: Vermiwash and Biopesticides. Biotech Books. New Delhi.
2. EIRI Board of Consultants & Engineers (2009). Handbook Of Biofertilizers and Vermiculture (Pb). Engineers India Research.
3. Sathe T. V. (2022). Vermiculture and Organic Farming. Daya Publishing House.

Syllabus: - Practicals

List of Experiments-

1. Taxonomy and Morphology of Earthworm.
2. Study of Useful species of Earthworm. (*Eudrilus eugeniae*, *Eisenia foetida*, *Megascolex species*, *Eisenia Andrei* etc)
3. Dissection of Digestive system of Earthworm.
4. Dissection of Reproductive system of Earthworm.
5. Mounting of excretory organs "Septal Nephridium" of Earthworm.
6. Study of Life cycle of Earthworm.
7. Rearing of Earthworms.

- 8. Survey for site selection of vermiculture and vermicoposting Unit.
- 9. Size and material used for vermiculture unit.
- 10. Material and methods for preparation of beds / layers in vermiculture unit.
- 11. Steps in vermicomposting treatment of organic wastes.
 - (Removal of non-organic matter)
 - (Size reduction of organic matter)
 - (Microbial pre-treatment of organic matter)
 - (Vermicomposting of pre-treated organic waste.)
- 12. Setting up of vermicoposting Unit (maintenance of physico-chemical factors, harvesting of vermicompost and vermiwash)

Duration of Course:

Sr.No.	Course	Duration	Eligibility
1)	Certificate Course in Vermiculture	30 hr.	B.Sc.



Course Co-Ordinator



Head
Department of Zoology
Kisan Veer Mahavidyalaya,
 Wai, Dist. Satara
 Department of Zoology



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 Wai, Dist. Satara



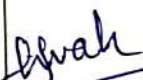
Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai

Department of Zoology

Year: 2025-26

CERTIFICATE COURSE IN VERMICULTURE

Syllabus Workload distribution

Class	Unit	Teacher Name	Signature
Syllabus: - Theory			
B.SC. I, II and III	Unit I 1. Introduction to vermiculture: definition, meaning, history 2. Different useful species of earthworms, local and exotic species of earthworms 3. Role of earthworms in soil ecosystem 4. Basic characteristics of earthworms suitable for vermicomposting.	Dr. Shewale A. S.	
	Unit II 1. Biology of earthworm: Habit habitat, Systematic position, Morphology, General body plan 2. Reproduction and Life cycle of an earthworm 3. Methods of vermicomposting: (a) Low-cost floor beds, (b) Tank system		

	<ol style="list-style-type: none"> 1. Material required for vermicomposting 2. Ideal conditions required for vermiculture: Temperature, pH, Moisture 		
	<p>Unit III</p> <ol style="list-style-type: none"> 1. Procedure for vermicomposting 2. Harvesting the products of vermiculture: Earthworms, Vermicompost, Vermiwash 3. Vermicompost: Properties, Uses, role in the growth of plants 4. Vermiwash: Utility in agriculture 5. Enemies and diseases of earthworms and their management 6. Economic importance of vermiculture and potential of entrepreneurship 	<p>Dr. Shewale A. S.</p>	<p><i>Shah</i></p>

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Course Co-Ordinator

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Head

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Janata Shikshan Sanstha's


Kisan Veer Mahavidyalaya, Wai

Department of Zoology

Year: 2025-26

CERTIFICATE COURSE IN VERMICULTURE

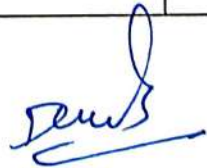
Syllabus Workload distribution

Class	Unit	Teacher Name	Signature
Syllabus: - Practical			
B.SC. I, II and III	1. Taxonomy and Morphology of Earthworm. 2. Study of Useful species of Earthworm. (<i>Eudrilus eugeniae</i> , <i>Eisenia foetida</i> , <i>Megascolex species</i> , <i>Eisenia Andrei</i> etc) 3. Dissection of Digestive system of Earthworm. 4. Dissection of Reproductive system of Earthworm. 5. Mounting of excretory organs "Septal Nephridium" of Earthworm. 6. Study of Life cycle of Earthworm.	Dr. Shewale A. S.	
	7. Rearing of Earthworms. 8. Survey for site selection of vermiculture and		

	<p>vermicoposting Unit.</p> <p>9. Size and material used for vermiculture unit.</p> <p>10. Material and methods for preparation of beds / layers in vermiculture unit.</p> <p>11. Steps in vermicomposting treatment of organic wastes. (Removal of non-organic matter) (Size reduction of organic matter) (Microbial pre-treatment of organic matter) (Vermicomposting of pre-treated organic waste.)</p> <p>12. Setting up of vermicoposting Unit (maintenance of physico-chemical factors, harvesting of vermicompost and vermiwash)</p>		
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Course Co-Ordinator



Head
Department of Zoology
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Wai-412803
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Wai, Dist. Satara

WORKING

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Zoology

Semester -II, IV, VI

Year: 2025-26

Class: B.Sc. I, II & III

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07.27-08.15						
2	08.15-09.03			B.Sc.I- RRT		B.Sc. III CSS	
3	09.03-09.51	B.Sc II Major- RRT B.Sc. III- JMG	B.Sc. II Major- CSS B.Sc. III - RRT	B.Sc.II Major -ASS B.Sc.III- CSS	B.Sc. I- ASS B.Sc. II Major- JMG B.Sc. III- RRT	B.Sc. I- JMG B.Sc. II Minor RRT B.Sc. III- ASS	B.Sc. III- CSS B.Sc. II Minor- ASS
4	09.51-10.39	B.Sc I- CSS B.Sc. III- ASS	B.Sc. III- JMG	B.Sc. II Minor- JMG B.Sc.III RRT	B.Sc. II Minor- CSS B.Sc. III- ASS	Vermi. BSc.III- ASS	B.Sc. III - JMG
11.15-11.25							
5-8	11.25-3.25	B.Sc I B-II CSS	B.Sc. I B-I- JMG	B.Sc. I B- III- ASS	B.Sc.III- RRT	O.E. B.Sc. I- RRT S.E.C- B.Sc. II- CSS	O.E. B.A- II- JMG C.E.P- B.Sc. II- RRT
		B.Sc. II Minor- ASS	B.Sc. II Major- RRT				
		B.Sc III- JMG	B.Sc. III- ASS	B.Sc.III- CSS		B.Sc. III Vermi Pract. ASS	B.Sc. III Vermi Pract. JMG



RRR: Mr. R.R. Tayade, ASS: Dr. A. Shewale JMG : Mrs. J.M. Ghadage, CSS: Mr. S. Chivari's

[Signature]
Head

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Wai, Dist. Satara

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
 Certificate Course in Vermiculture (2025-26)
 Department of Zoology
 Student List

Sr. No.	Roll No.	Class	Name
1	1	B.Sc. III	BHISE MANDAR MOHAN
2	63	B.Sc. III	CHAVAN PRACHI DEEPAK
3	64	B.Sc. III	JAMDADE DIPALI SHANKAR
4	69	B.Sc. III	UMBARKAR SHRAVANI SAGAR
5	74	B.Sc. III	PAWAR SHRAVANI KASHINATH
6	2	B.Sc. II	JADHAV SUHANI RAJENDRA
7	3	B.Sc. II	TARATE SAKSHI KIRAN
8	24	B.Sc. II	GADHAVE SEJAL VINOD
9	25	B.Sc. II	PAWAR SHRUTI PANDURANG
10	26	B.Sc. II	BHOITE SHRAVANI MOHAN
11	27	B.Sc. II	BELOSHE NAMRATA JAYWANT
12	28	B.Sc. II	PISAL SANGRAM CHARAN
13	29	B.Sc. II	KHOPADE ANISHA DIPAK
14	34	B.Sc. II	SHELAR NAMRATA KRUSHNA
15	35	B.Sc. II	PHANSE SHRAVANI JAGANNATH
16	36	B.Sc. II	MANDHARE VAIBHAVI HANMANT
17	37	B.Sc. II	WADKAR TRUPTI SANTOSH
18	38	B.Sc. II	MULLA RAJ SALIM
19	57	B.Sc. II	KHARADE ANUSHKA MANGESH
20	64	B.Sc. II	MALUSARE SIDDHI SANJAY
21	73	B.Sc. II	BHOSALE SNEHAL KASHINATH
22	79	B.Sc. II	ITHAPE TANMAY SANJAY
23	80	B.Sc. II	ITHAPE PRASAD DIPAK
24	87	B.Sc. II	KALAMBE CHAITANYA DILIP
25	97	B.Sc. II	ITHAPE SHREYASH SANTOSH
26	98	B.Sc. II	NIKAM OMKAR RAMESH
27	113	B.Sc. II	MAHAMUNI SHRADDHA HEMANT
28	114	B.Sc. II	LANGADE KOMAL DNYANESHWAR
29	115	B.Sc. II	SHINDE DIKSHA JITENDRA
30	128	B.Sc. II	VEDPATHAK HEMANT MADHUKAR
31	47	B.Sc. I	BHOSALE RADHIKA PRATAP
32	48	B.Sc. I	REVADE SANIKA SACHIN
33	49	B.Sc. I	PAWAR KUNAL KRUSHNA
34	50	B.Sc. I	JAGTAP PRATHMESH SATISH
35	52	B.Sc. I	BANKAR LAXMI SHANKAR
36	62	B.Sc. I	KAMBLE HARSH RAHUL
37	64	B.Sc. I	YEWALE SARTHAK MAHESH
38	65	B.Sc. I	SALUNKHE SAURABH ANIL
39	67	B.Sc. I	PISAL SANIKA VILAS.
40	69	B.Sc. I	PARTHE AKSHADA VITTHAL
41	70	B.Sc. I	KUMBHAR SHANTANU HANMANT
42	73	B.Sc. I	SHAIKH TANZIM IMTIYAZ
43	76	B.Sc. I	JAGTAP AMRUTA LAXMAN



44	77	B.Sc. I	CHAVAN MONIKA VIJAY
45	78	B.Sc. I	ZADE ABHAY VIJAY
46	79	B.Sc. I	THORAVE SAMARTH SATISH
47	81	B.Sc. I	SHELAR BHAGYASHREE NARAYAN
48	82	B.Sc. I	SHINDE PURVA PRAKASH
49	85	B.Sc. I	BAGADE ARUNDHATI KIRAN
50	89	B.Sc. I	PAWAR DIKSHA TANAJI
51	92	B.Sc. I	BHOSALE VAISHNAVI SANDIP
52	93	B.Sc. I	PISAL ARYAN NARAYAN
53	94	B.Sc. I	JADHAV SANKLP SANDEEP
54	98	B.Sc. I	LOLE AARYA DHANANJAY
55	99	B.Sc. I	DHAMAL RUTUJA DATTATRAY
56	103	B.Sc. I	RAJE AKSHADA DILIP
57	108	B.Sc. I	SANAS MANSI HARISH
58	121	B.Sc. I	SHIRKE SAWALI DNYANDEV
59	122	B.Sc. I	VAIRAT SHRAVANI VIJAY
60	123	B.Sc. I	BHALEKAR AVANTI SANJAY

6) 194 B.Sc. I BHILARE SANJANA BAJIRAO



[Signature]
Head
 Department of Zoology
 Kisan Veer Mahavidyalaya,
 Wai 412803

[Signature]
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 Wai, Dist. Satara

54	98	B.Sc. I	LOLE AARYA DHANANJAY																
55	99	B.Sc. I	DHAMAL RUTUJA DATTATRAY																
56	103	B.Sc. I	RAJE AKSHADA DILIP																
57	108	B.Sc. I	SANAS MANSI HARISH																
58	121	B.Sc. I	SHIRKE SAWALI DNYANDEV																
59	122	B.Sc. I	VAIRAT SHRAVANI VIJAY																
60	123	B.Sc. I	BHALEKAR AVANTI SANJAY																
61	194	B.Sc. I	BHILARE SANJANA BAJIRAO .																




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 Wai, Dist. Satara

Kisan Veer Mahavidyalaya, Wai

Department of Zoology

Date: 14/03/2026

Notice

Students of the B.Sc. Zoology are hereby informed that their theory and practical's examination of certificate course in Vermiculture is arranged on Tuesday, 24/03/2026 as per following schedule.

Date	Title	Time
24/03/2026	Paper I	9.30 am to 11.30 am
25/03/2026	Practical I	9.30 am to 11.30 am



Course Co-Ordinator



Head,

Department of Zoology



PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai

Certificate Course in Vermiculture (2025-26)

Department of Zoology

Exam Attendance 24/03/2026 and 25/03/26

Sr. No.	Roll No.	Class	Name	Sign	Sign
1	1	B.Sc. III	BHISE MANDAR MOHAN	M.M.Bhise	M.M.Bhise
2	63	B.Sc. III	CHAVAN PRACHI DEEPAK	Prachi	Prachi
3	64	B.Sc. III	JAMDADDE DIPALI SHANKAR	D.Jamdade	D.Jamdade
4	69	B.Sc. III	UMBARKAR SHRAWANI SAGAR	U.Shankar	U.Shankar
5	74	B.Sc. III	PAWAR SHRAVANI KASHINATH	Shrawani	Shrawani
6	2	B.Sc. II	JADHAV SUHANI RAJENDRA	S.P.Jadhav	S.P.Jadhav
7	3	B.Sc. II	TARATE SAKSHI KIRAN	S.K.Tarate	S.K.Tarate
8	24	B.Sc. II	GADHAVE SEJAL VINOD	S.V.Gadhav	S.V.Gadhav
9	25	B.Sc. II	PAWAR SHRUTI PANDURANG	Shruti	Shruti
10	26	B.Sc. II	BHOITE SHRAVANI MOHAN		
11	27	B.Sc. II	BELOSHE NAMRATA JAYWANT	N.Belash	N.Belash
12	28	B.Sc. II	PISAL SANGRAM CHARAN		
13	29	B.Sc. II	KHOPADE ANISHA DIPAK	A.Khopade	A.Khopade
14	34	B.Sc. II	SHELAR NAMRATA KRUSHNA	N.Shelar	N.Shelar
15	35	B.Sc. II	PHANSE SHRAVANI JAGANNATH	Shrawani	Shrawani
16	36	B.Sc. II	MANDHARE VAIBHAVI HANMANT	V.Mandhare	V.Mandhare
17	37	B.Sc. II	WADKAR TRUPTI SANTOSH	T.Wadkar	T.Wadkar
18	38	B.Sc. II	MULLA RAJ SALIM	Raj	Raj
19	57	B.Sc. II	KHARADE ANUSHKA MANGESH	A.Kharade	A.Kharade
20	64	B.Sc. II	MALUSARE SIDDHI SANJAY	S.S.Malusare	S.S.Malusare
21	73	B.Sc. II	BHOSALE SNEHAL KASHINATH	S.Bhosale	S.Bhosale
22	79	B.Sc. II	ITHAPE TANMAY SANJAY	T.Ithape	T.Ithape
23	80	B.Sc. II	ITHAPE PRASAD DIPAK	P.Ithape	P.Ithape
24	87	B.Sc. II	KALAMBE CHAITANYA DILIP	C.Kalambe	C.Kalambe
25	97	B.Sc. II	ITHAPE SHREYASH SANTOSH	S.Ithape	S.Ithape
26	98	B.Sc. II	NIKAM OMKAR RAMESH	O.Nikam	O.Nikam
27	113	B.Sc. II	MAHAMUNI SHRADDHA HEMANT	S.Mahamuni	S.Mahamuni
28	114	B.Sc. II	LANGADE KOMAL DNYANESHWAR	K.Langade	K.Langade
29	115	B.Sc. II	SHINDE DIKSHA JITENDRA	D.Shinde	D.Shinde
30	128	B.Sc. II	VEDPATHAK HEMANT MADHUKAR		
31	47	B.Sc. I	BHOSALE RADHIKA PRATAP	R.P.Bhosale	R.P.Bhosale
32	48	B.Sc. I	REVADE SANIKA SACHIN	S.Revade	S.Revade
33	49	B.Sc. I	PAWAR KUNAL KRUSHNA	K.Pawar	K.Pawar
34	50	B.Sc. I	JAGTAP PRATHMESH SATISH	P.Jagtap	P.Jagtap
35	52	B.Sc. I	BANKAR LAXMI SHANKAR	L.Bankar	L.Bankar
36	62	B.Sc. I	KAMBLE HARSH RAHUL	H.Kamble	H.Kamble
37	64	B.Sc. I	YEWALE SARTHAK MAHESH		
38	65	B.Sc. I	SALUNKHE SAURABH ANIL	S.Salunkhe	S.Salunkhe
39	67	B.Sc. I	PISAL SANIKA VILAS.	S.V.Pisal	S.V.Pisal
40	69	B.Sc. I	PARTHE AKSHADA VITTHAL	A.Parthe	A.Parthe
41	70	B.Sc. I	KUMBHAR SHANTANU HANMANT		
42	73	B.Sc. I	SHAIKH TANZIM IMTIYAZ		

43	76	B.Sc. I	JAGTAP AMRUTA LAXMAN	A.L. Jagtap	A.L. Jagtap
44	77	B.Sc. I	CHAVAN MONIKA VIJAY	Mhavo.	Mhavo.
45	78	B.Sc. I	ZADE ABHAY VIJAY	Abaya	Abaya
46	79	B.Sc. I	THORAVE SAMARTH SATISH		
47	81	B.Sc. I	SHELAR BHAGYASHREE NARAYAN	B.N. Shelar	B.N. Shelar
48	82	B.Sc. I	SHINDE PURVA PRAKASH	P.P. Shinde	P.P. Shinde
49	85	B.Sc. I	BAGADE ARUNDHATI KIRAN		
50	89	B.Sc. I	PAWAR DIKSHA TANAJI	Pawar	Pawar
51	92	B.Sc. I	BHOSALE VAISHNAVI SANDIP		
52	93	B.Sc. I	PISAL ARYAN NARAYAN	A.N. Pisal	A.N. Pisal
53	94	B.Sc. I	JADHAV SANKLP SANDEEP	S.S. Jadhav	S.S. Jadhav
54	98	B.Sc. I	LOLE AARYA DHANANJAY		
55	99	B.Sc. I	DHAMAL RUTUJA DATTATRAY	Dhamal R.D	Dhamal R.D
56	103	B.Sc. I	RAJE AKSHADA DILIP	A.D. Raj	A.D. Raj
57	108	B.Sc. I	SANAS MANSI HARISH	Mansi	Mansi
58	121	B.Sc. I	SHIRKE SAWALI DNYANDEV		
59	122	B.Sc. I	VAIRAT SHRAVANI VIJAY	S.V. Vairat	S.V. Vairat
60	123	B.Sc. I	BHALEKAR AVANTI SANJAY	B.S. Bhalakar	B.S. Bhalakar
61	194	B.Sc. I	BHILARE SANJANA BAJIRAO	Bhilare	Bhilare



[Handwritten Signature]

Head
Department of Zoology
Kisan Veer Mahavidyalaya,
Wai 412803

[Handwritten Signature]

PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara

10. Compost manure is formed from _____
- Rotted vegetable and animal refuse
 - Farm refuse and household refuse
 - Farmyard manure and green manure
 - Organic wastes from which biogas has been extracted.

Q2. Answer the following questions. 20

- 1) Explain the life cycle of *Eisenia foetida*.
- 2) Describe the process of vermicompost harvest.

Q3. Write short notes on. 20

- 1) Methods of vermicomposting
- 2) Role of earthworms in soil ecosystem
- 3) Vermiwash
- 4) Economic importance of vermiculture.





10. Compost manure is formed from _____
- a. Rotted vegetable and animal refuse
 - b. Farmyard manure and green manure
 - c. Farm refuse and household refuse
 - d. Organic wastes from which biogas has been extracted.

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Q3. Write short notes on. 20

- 1) Methods of vermicomposting
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- 4) Economic importance of vermiculture.



Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Zoology
Subject: Certificate Course in Vermiculture (Practical)

Practical Examination (2025-26)

Day: Wednesday

Time: 9.30 am

Date: 25/03/2026

Marks: 50

-
- Q.1 Describe the construction of worm bin 10
- Q.2 Describe the controlling temperature & moisture in the bin 10
- Q.3 Write the taxonomic status of earthworm 07
- Q.4 Describe the general morphological features of earthworm 08
- Q.5 Identification 10
- a) Identify & describe (Types of earthworm - *Eisenia fetida*)
 - b) Identify & describe (Bedding material - Shredded Cardboard)
 - c) Identify & describe (Gut of earthworm)
 - d) Identify & describe (Bedding material - Straw)
 - e) Identify & describe (Types of earthworm - *Eisenia andrei*)
- Q.6 Viva Voce 05



A handwritten signature in blue ink, consisting of a stylized name followed by a horizontal line.

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Zoology
Subject: Certificate Course in Vermiculture

Practical Examination (2025-26)

Day: Wednesday

Time: 9.30 am

Date: 25/03/2026

Marks: 50

-
- | | |
|--|----|
| Q.1 Describe the construction of worm bin | 10 |
| Q.2 Describe the controlling temperature & moisture in the bin | 10 |
| Q.3 Write the taxonomic status of earthworm | 07 |
| Q.4 Describe the general morphological features of earthworm | 08 |
| Q.5 Identification | 10 |
| a) Identify & describe | |
| b) Identify & describe | |
| c) Identify & describe | |
| d) Identify & describe | |
| e) Identify & describe | |
| Q.6 Viva Voce | 05 |



Janata Shikshan Sanstha's						
Kisan Veer Mahavidyalaya, Wai						
Certificate Course in Vermiculture (2025-26)						
Department of Zoology						
Mark List						
Sr. No.	Roll No.	Class	Name	Marks Out of 50		
				Theory	Practical	Total
1	1	B.Sc. III	BHISE MANDAR MOHAN	23	28	51
2	63	B.Sc. III	CHAVAN PRACHI DEEPAK	21	26	47
3	64	B.Sc. III	JAMDADE DIPALI SHANKAR	24	27	51
4	69	B.Sc. III	UMBARKAR SHRAWANI SAGAR	23	26	49
5	74	B.Sc. III	PAWAR SHRAVANI KASHINATH	21	26	47
6	2	B.Sc. II	JADHAV SUHANI RAJENDRA	23	26	49
7	3	B.Sc. II	TARATE SAKSHI KIRAN	23	25	48
8	24	B.Sc. II	GADHAVE SEJAL VINOD	23	25	48
9	25	B.Sc. II	PAWAR SHRUTI PANDURANG	21	25	46
10	26	B.Sc. II	BHOITE SHRAVANI MOHAN	AB	AB	AB
11	27	B.Sc. II	BELOSHE NAMRATA JAYWANT	24	32	56
12	28	B.Sc. II	PISAL SANGRAM CHARAN	AB	AB	AB
13	29	B.Sc. II	KHOPADE ANISHA DIPAK	22	28	50
14	34	B.Sc. II	SHELAR NAMRATA KRUSHNA	23	27	50
15	35	B.Sc. II	PHANSE SHRAVANI JAGANNATH	23	26	49
16	36	B.Sc. II	MANDHARE VAIBHAVI HANMANT	24	29	53
17	37	B.Sc. II	WADKAR TRUPTI SANTOSH	23	26	49
18	38	B.Sc. II	MULLA RAJ SALIM	23	26	49
19	57	B.Sc. II	KHARADE ANUSHKA MANGESH	21	28	49
20	64	B.Sc. II	MALUSARE SIDDHI SANJAY	23	26	49
21	73	B.Sc. II	BHOSALE SNEHAL KASHINATH	24	27	51
22	79	B.Sc. II	ITHAPE TANMAY SANJAY	22	22	44
23	80	B.Sc. II	ITHAPE PRASAD DIPAK	22	21	43
24	87	B.Sc. II	KALAMBE CHAITANYA DILIP	23	23	46
25	97	B.Sc. II	ITHAPE SHREYASH SANTOSH	AB	AB	AB
26	98	B.Sc. II	NIKAM OMKAR RAMESH	22	25	47
27	113	B.Sc. II	MAHAMUNI SHRADDHA HEMANT	24	24	48
28	114	B.Sc. II	LANGADE KOMAL DNYANESHWAR	AB	AB	AB
29	115	B.Sc. II	SHINDE DIKSHA JITENDRA	AB	AB	AB
30	128	B.Sc. II	VEDPATHAK HEMANT MADHUKAR	AB	AB	AB
31	47	B.Sc. I	BHOSALE RADHIKA PRATAP	23	25	48
32	48	B.Sc. I	REVADE SANIKA SACHIN	24	25	49
33	49	B.Sc. I	PAWAR KUNAL KRUSHNA	22	26	48
34	50	B.Sc. I	JAGTAP PRATHMESH SATISH	AB	AB	AB
35	52	B.Sc. I	BANKAR LAXMI SHANKAR	20	27	47
36	62	B.Sc. I	KAMBLE HARSH RAHUL	22	25	47
37	64	B.Sc. I	YEWALE SARTHAK MAHESH	AB	AB	AB
38	65	B.Sc. I	SALUNKHE SAURABH ANIL	21	24	45
39	67	B.Sc. I	PISAL SANIKA VILAS.	23	27	50
40	69	B.Sc. I	PARTHE AKSHADA VITTHAL	24	30	54
41	70	B.Sc. I	KUMBHAR SHANTANU HANMANT	AB	AB	AB

42	73	B.Sc. I	SHAIKH TANZIM IMTIYAZ	20	29	49
43	76	B.Sc. I	JAGTAP AMRUTA LAXMAN	22	26	48
44	77	B.Sc. I	CHAVAN MONIKA VIJAY	23	23	46
45	78	B.Sc. I	ZADE ABHAY VIJAY	20	22	42
46	79	B.Sc. I	THORAVE SAMARTH SATISH	AB	AB	AB
47	81	B.Sc. I	SHELAR BHAGYASHREE NARAYAN	23	27	50
48	82	B.Sc. I	SHINDE PURVA PRAKASH	21	29	50
49	85	B.Sc. I	BAGADE ARUNDHATI KIRAN	AB	AB	AB
50	89	B.Sc. I	PAWAR DIKSHA TANAJI	23	26	49
51	92	B.Sc. I	BHOSALE VAISHNAVI SANDIP	AB	AB	AB
52	93	B.Sc. I	PISAL ARYAN NARAYAN	21	27	48
53	94	B.Sc. I	JADHAV SANKLP SANDEEP	22	23	45
54	98	B.Sc. I	LOLE AARYA DHANANJAY	AB	AB	AB
55	99	B.Sc. I	DHAMAL RUTUJA DATTATRAY	24	25	49
56	103	B.Sc. I	RAJE AKSHADA DILIP	22	29	51
57	108	B.Sc. I	SANAS MANSI HARISH	21	20	41
58	121	B.Sc. I	SHIRKE SAWALI DNYANDEV	AB	AB	AB
59	122	B.Sc. I	VAIRAT SHRAVANI VIJAY	22	21	43
60	123	B.Sc. I	BHALEKAR AVANTI SANJAY	23	26	49
61	194	B.Sc. I	BHILARE SANJANA BAJIRAO	25	30	55



[Signature]
Head
 Department of Zoology
 Kisan Veer Mahavidyalaya,
 Wai 412803

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 KISAN VEER MAHAVIDYALAYA
 Wai, Dist. Satara



Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI



Department of Zoology
"Certificate Course in Vermiculture"
Course Report - 2025-26

Department of Zoology has conducted the certificate course entitled **"Certificate Course in Vermiculture"**. Now a day's chemical fertilizers and pesticides are creating many problems such as decreasing fertility of soil and ultimately affecting on soil microfauna. To overcome these problems there is great need of vermicomposting. To solve the problem of salinity and infertility of soil up to certain extent, department of zoology has started the certificate course in vermiculture for B.Sc. I, B.Sc. II and B. Sc. III students. Department of zoology has established vermicomposting unit in college campus. Four vermicomposting beds having size 15X4X3. We have introduced the species of earthworm *Esinia foetida*. The course includes study of earthworm species, production of vermicompost and vermiwash. The vermicompost beds were maintained properly by watering and other management. The objectives of this course are to provide the students to understand the detailed knowledge of vermicomposting, vermiwash, maintenance of beds, proper supply of organic matter etc. The produced vermicompost was used in college garden for healthy growth of plants. This course was conducted during the 17th July 2025 to 13th March 2026. During this period the lectures and practicals were conducted by faculties. During this course the students get knowledge about the vermicompost. Students were sincerely attended and get hands on training of preparation of beds. In this course every resource person inculcate the awareness about the vermicomposting, vermiwash, different species of earthworms, their role in increasing fertility of soil etc. Students getting the ideas and they will be involve in establishment of vermicompost beds in their

native areas and also they aware the society for the use of vermicompost, vermiwash etc.



Course Co-Ordinator



Head

Department of Zoology
Kisan Veer Mahavidyalaya,
Wal 412803

Department of Zoology

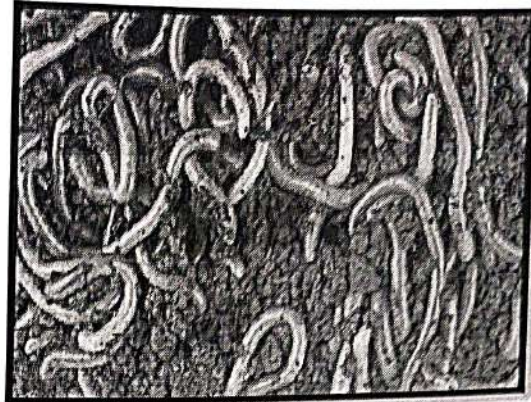


PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wal Principal





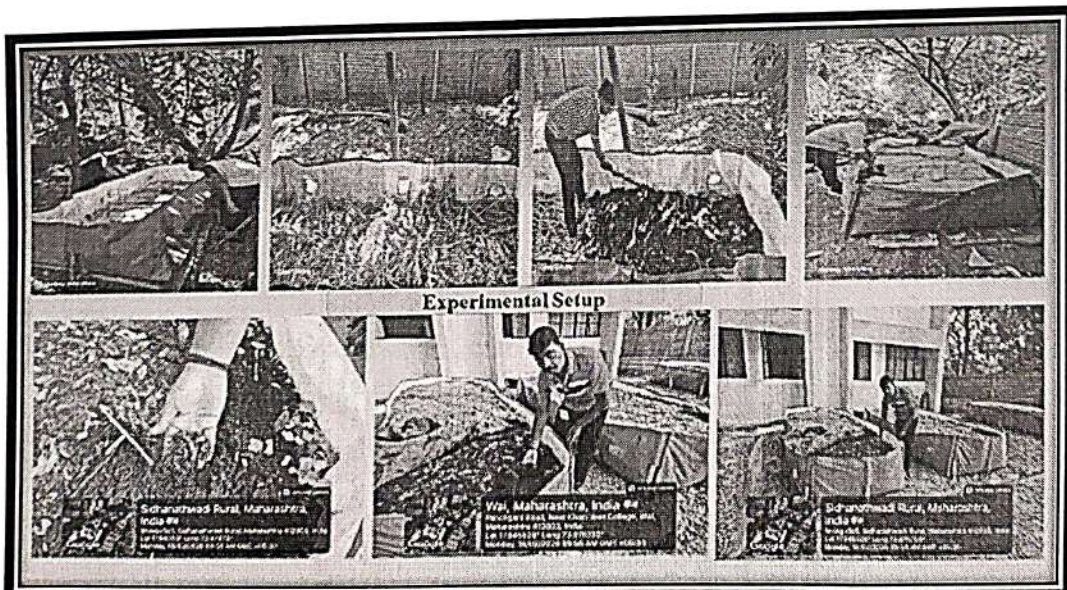
Vermicompost



Earthworms



Vermiwash





JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVIDYALAYA, WAI

DIST-SATARA, MAHARASHTRA, INDIA-412803



Certificate Course in Vermiculture

2025-26

Certificate

This is to certify that, Mr./Ms. Miss. Bhilare Sanjana Bajira, participated in the "Certificate Course in Vermiculture" Organized by Department of Zoology, Kisan Veer Mahavidyalaya, Wai, Satara (Maharashtra) for the Academic year 2025-26.


Coordinator




Head
Department of Zoology
Kisan Veer Mahavidyalaya,
Wai-412803
Department of Zoology


PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara



JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVIDYALAYA, WAI

DIST-SATARA, MAHARASHTRA, INDIA-412803



Certificate Course in Vermiculture

2025-26

Certificate

This is to certify that, *Mr./Ms./Miss. Bhise. Mandar. Mohan*..... participated in the "Certificate Course in Vermiculture" Organized by Department of Zoology, Kisan Veer Mahavidyalaya, Wai, Satara (Maharashtra) for the Academic year 2025-26.

Coordinator



Head

Department of Zoology
Kisan Veer Mahavidyalaya,
Wai 412803

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