

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

Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Empowered Autonomous)
Department of Zoology

**B.Sc. I Field Visit to Vermicompost
Unit
(26th March 2024)**



Academic Year: 2023-2024

“Dissemination of Education for Knowledge Science & Culture”
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Department of Zoology
Academic Year: 2023-24

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B. Sc. I Field Visit-Vermicompost Unit

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Dr. G. K. Sontakke
HEAD
DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



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Vivekanand College, Kolhapur
(Empowered Autonomous)
Internal Quality Assurance Cell
2023-2024



Quality Initiatives/ Activities Report

1. **Name of Department:** Zoology
2. **Name of Organized Activity:** Field visit to Vermicompost Unit
3. **Date/ Duration:** Tuesday 26/03/2024, 3.00 pm onwards
4. **Aims and Objectives:**
 - i. To enhance the knowledge of vermicomposting
 - ii. To develop skill and entrepreneurship in vermicomposting
5. **No. of beneficiaries:**

Sr. No	Teacher		Students		Total
	Male	Female	Male	Female	
1.	--	2	08	25	35

6. **Expenditure & funding agency:** NA

7. **Brief description:**

On Tuesday, March 26, 2024, the Department of Zoology, Vivekanand College, Kolhapur, organized a field visit for B. Sc. I students to the Vermicompost Unit located in Ruikar Colony, Kolhapur. This visit, is part of the B.Sc. I VSC syllabus, aimed to provide students with practical knowledge about vermicomposting and insights into entrepreneurship in this field. The vermicomposting unit, established by Mr. Sachin Jadhav, an eminent agriculturist, provided a comprehensive introduction to the processes involved in vermiculture and vermicomposting. Mr. Jadhav explained that vermiculture involves the cultivation of earthworms, while vermicomposting is the process where these earthworms convert organic waste into a humus-like substance known as vermicompost. The students gained valuable insights into the practical aspects of vermicomposting, including the setup and maintenance of vermibeds. The visit enriched their understanding of sustainable waste management and the potential for entrepreneurship in the field of vermicomposting. Overall, the visit was a success,

providing students with hands-on experience and deepening their knowledge of ecological practices and entrepreneurial opportunities in agriculture.

8. Outcomes:

- i. Students gained information about earthworms, vermiwash and vermicompost
- ii. Students learn about the advantages of utilizing vermicompost in farming

9. Photos:



10. Signature of coordinator and organizer:

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Hen
Dr. G. K. Sontakke
DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

PERMISSION LETTER

Date: 23/03/2024

To,
The Principal,
Vivekanand College, Kolhapur (Empowered Autonomous)

Subject: Regarding the permission for organising visit to the **Vermicomposting Unit**, Kavala Naka Kolhapur for the students of B. Sc. I

Respected Sir,

With reference to above subject, Department of Zoology Vivekanand College, Kolhapur (Empowered Autonomous) is going to organize visit to **Vermicomposting Unit**, Kavala Naka Kolhapur for the students of B. Sc. I on Tuesday, 26/03/2024. This visit is part of syllabus which included in VSC practical of B. Sc. I. For that kindly requesting you to grant permission

Thanking you.

Enclosure:

List of students and Faculty

Yours faithfully,



Dr. G. K. Sontakke
HEAD

**DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)**

Handwritten notes in Marathi:
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26/03/24
Allowed
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20/3/24

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Vivekanand College, Kolhapur (Empowered Autonomous)

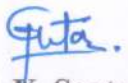
Department of Zoology

Academic Year 2023-24

List of Teaching faculty and students

Sr. No.	Name	Designation
1.	Dr. S. S. Desai	Assistant Professor
2.	Ms. P. R. Gaikwad	Assistant Professor
3.	Bariya Avinaben Vinodbhai	B.Sc. I
4.	Kamble Ketan Keraba	B.Sc. I
5.	Kamble Ratndip Rajaram	B.Sc. I
6.	Kamble Sangmitra Ananda	B.Sc. I
7.	Lavhate Vaishnavi Tanaji	B.Sc. I
8.	Patil Dhananjay Anandrao	B.Sc. I
9.	Powar Yash Mahadev	B.Sc. I
10.	Adgale Parab Charudatta	B.Sc. I
11.	Akulwar Janhavi Laxman	B.Sc. I
12.	Chavan Sakshi Madhav	B.Sc. I
13.	Davari Mayuri Bharat	B.Sc. I
14.	Kadre Dnyaneshwari Balaso	B.Sc. I
15.	Kamble Gauri Sandip	B.Sc. I
16.	Kamble Vaishnavi Shashikant	B.Sc. I
17.	Khot Vira Sachin	B.Sc. I
18.	Kole Sandesh Subhash	B.Sc. I
19.	Mahekar Pruthviraj Tatoba	B.Sc. I
20.	Mane Pranoti Prakash	B.Sc. I
21.	Mane Sangramsingh Sandip	B.Sc. I
22.	Momin Shireen Sajid	B.Sc. I
23.	More Sanika Sanjay	B.Sc. I
24.	Nadaf Muskan Mohammad Rafiq	B.Sc. I
25.	Navale Rutuja Pradeep	B.Sc. I
26.	Patil Anushka Rajgonda	B.Sc. I

27.	Patil Gouri Vijay	B.Sc. I
28.	Patil Madhuri Sanjay	B.Sc. I
29.	Patil Prajawal Sunil	B.Sc. I
30.	Patil Sayali Ashok	B.Sc. I
31.	Patil Suhani Suraj	B.Sc. I
32.	Redekar Shrawani Madhukar	B.Sc. I
33.	Shirgave Rutuja Bajarang	B.Sc. I
34.	Todkar Shravani Sanjay	B.Sc. I
35.	Patil Dhanashree Jotiram	B.Sc. I


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Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology

Academic Year 2023-24

Date: 23/03/2024

NOTICE

All the students of B. Sc. I (Major) are hereby informed that Department of Zoology is going to organize visit to **Vermicomposting Unit, Kavala Naka Kolhapur on Tuesday, 26/03/2024** at 03:00 pm. This visit is part of syllabus which included in VSC practical. Attendance is compulsory to all.


Dr. G. K. Sontakke
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Vivekanand College, Kolhapur (Empowered Autonomous)
Department of Zoology
Academic Year 2023-24

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5.	Kamble Ratndip Rajaram	B.Sc. I
6.	Kamble Sangmitra Ananda	B.Sc. I
7.	Lavhate Vaishnavi Tanaji	B.Sc. I
8.	Patil Dhananjay Anandrao	B.Sc. I
9.	Powar Yash Mahadev	B.Sc. I
10.	Adgale Parab Charudatta	B.Sc. I
11.	Akulwar Janhavi Laxman	B.Sc. I
12.	Chavan Sakshi Madhav	B.Sc. I
13.	Davari Mayuri Bharat	B.Sc. I
14.	Kadre Dnyaneshwari Balaso	B.Sc. I
15.	Kamble Gauri Sandip	B.Sc. I
16.	Kamble Vaishnavi Shashikant	B.Sc. I
17.	Khot Vira Sachin	B.Sc. I
18.	Kole Sandesh Subhash	B.Sc. I
19.	Mahekar Pruthviraj Tatoba	B.Sc. I
20.	Mane Pranoti Prakash	B.Sc. I
21.	Mane Sangramsingh Sandip	B.Sc. I
22.	Momin Shireen Sajid	B.Sc. I
23.	More Sanika Sanjay	B.Sc. I
24.	Nadaf Muskan Mohammad Rafiq	B.Sc. I
25.	Navale Rutuja Pradeep	B.Sc. I
26.	Patil Anushka Rajgonda	B.Sc. I
27.	Patil Gouri Vijay	B.Sc. I
28.	Patil Madhuri Sanjay	B.Sc. I
29.	Patil Prajawal Sunil	B.Sc. I
30.	Patil Sayali Ashok	B.Sc. I
31.	Patil Suhani Suraj	B.Sc. I
32.	Redekar Shrawani Madhukar	B.Sc. I
33.	Shirgave Rutuja Bajarang	B.Sc. I
34.	Todkar Shravani Sanjay	B.Sc. I
35.	Patil Dhanashree Jotiram	B.Sc. I


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Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Empowered Autonomous)
Department of Zoology
Academic year: 2023 - 2024

Report on B. Sc. I Visit to Vermicompost Unit

Department of Zoology, Vivekanand College, Kolhapur (Empowered Autonomous) has organized a field visit of B. Sc. I students to Vermicompost unit, Ruikar colony, kawala naka Kolhapur on Tuesday, 26/03/2024. This visit was part of B.Sc. I VSC syllabus with an aims to impart knowledge of vermicomposting and entrepreneurship among students. Total 30 students and 2 teachers have participated in this visit.

We started in the college at 2.45 pm and reached the Vermicomposting centre at 3.00 pm. The centre is located 2-3 kilometers away from college campus. The vermicompost centre was started 15 years back by Mr. Sachin Jadhav an eminent agriculturist. He gave an overall view of Vermiculture and Vermicomposting. Vermiculture is the cultivation of earth worms. Vermicomposting is a process by which the earthworms are used to convert organic waste materials into a humus like material known as vermicompost. The process of vermicomposting starts with the construction of a vermibed. He told that beds can be constructed of different sizes depending on the space available. If there is no shade sheds have to be constructed above the vermi beds. Otherwise vermibed can be constructed under the shade of big trees like Neem. To construct a bed compost fertilizer must be used. Care should be taken to avoid plastic and glasses pieces in the compost which is used for vermibed. The bed should be sprinkled with water so that it is kept moist. If it is summer season more water must be sprinkled. Then selected earthworm species must be released on to the bed. In this centre two species namely *Eisenia foetida* and *Eudryillus segena* is used. The earthworms feed on the organic waste present in the bed. The excreta of earth worms is ejected through the anus in the form of faecal pellets or worm castings which look like sand crystals. In about 6 weeks some worm casting are seen on the surface of vermibed. In 3 to 4 months the bed is filled with rich black fertilizer comprising of partially decomposed bedding and worm castings which look like sand crystals. Mr. Jadhav has shown us the collection procedure of vermicompost. He told that manual labour is necessary at this point of vermicomposting. For each bed 2 to 3 people are employed to collect the material in the form

of sand crystals into a sieve. The filtered part contains dry small pellets which are collected into Gunny bags & plastic bags. Then they are sold to the farmers. The left over vermicompost is used in his own agricultural purposes. From 4 tons of organic waste 1 ton of vermicompost can be prepared. In this unit Mr. Jadhav also collect vermiwash, we can use it as fertilizer to the plants. In these beds we collected earthworm's cocoons and observed the emergence of small earthworms by pressing the cocoons. In each cocoon 3 to 4 earthworms are present. We thanked the Mr. Sachin Jadhav for explaining about Vermiculture and vermicomposting and clearing our doubts. We returned back from the centre at around 6.00pm.

Dr. S. S. Desai and Ms. P. R. Gaikwad guided the students in field visit. Student returned with acquaint of the knowledge and hoping to start a vermicompost bed in their houses by utilize the vegetable and food waste.



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Department of Zoology
Academic Year 2023-24

Date: 23/03/2024





Photos: 1-6 Study tour visit to Vermicompost Unit Ruikar colony, Kawala naka, Kolhapur

G.K.
Dr. G. K. Sontakke
HEAD
DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
 (WOMEN EMPOWERMENT)