Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli)

Department of Zoology

INDEX

Short Term Course on Vermicomposting Year 2022-23

Sr. No.	Content
1.	Notice
2.	Objectives
3.	Syllabus
4.	Time Table
5.	List of Participants
6.	Attendance
7.	Report
8.	Certificate

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli) Department of Zoology NOTICE

Year 2022-23

All the students of Zoology Department are hereby informed that, the short term course on Vermicomposting will be conducted from 21st August 2022 to 25th November 2022. All the students should remain present for the lectures in time.

Department of Zoology
Dr. Patangrao Kadam Mahavidhyalaya,
Ramanandnagar (Buril)

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli)

Department of Zoology

Year: 2022-23

Short term certificate course in

VERMICOMPOSTING

OBJECTIVES:

- To study various types of organic wastes in farm
- To study different varieties of earthworm for vermicompost technique
- To manufacture the vermicompost by low cost technique
- To study various methods of preparation of vermicompost and vermiwash
- Application of vermicompost and vermiwash for different crops, fruits and vegetables.

Incharge of Course

(Momin A.M.)

Department of Zoology Dr. Patangrao Kadam Mahavidhyalaya, Ramanandnagar (Burli)

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli)

Department of Zoology

Short Term Course: Vermicomposting

Syllabus

Year: 2022-23

1. Introduction to Vermicomposting:

- Definition and importance of vermicomposting
- Benefits of vermicompost for soil and plants

2. Types of Earthworms:

- Identification of suitable earthworm species for vermicomposting
- Characteristics of red wigglers (Eisenia fetida) and other common species

3. Vermicomposting Setup:

- Container selection and preparation
- Bedding materials and their preparation

4. Feeding and Care of Earthworms:

- Proper feeding techniques
- Monitoring and maintaining optimal environmental conditions

5. Harvesting and Handling Vermicompost:

- When and how to harvest vermicompost
- Storage and packaging of vermicompost

6. Troubleshooting Common Issues:

- Addressing problems such as odor, pests, and overpopulation

7. Applications of Vermicompost:

- Using vermicompost in gardening, agriculture, and landscaping
- Benefits of vermicompost for sustainable agriculture

8. Environmental and Economic Benefits:

- Sustainability and waste reduction through vermicomposting
- Economic opportunities in vermicompost production

9. Case Studies and Success Stories:

- Real-world examples of successful vermicomposting projects

10. Hands-on Practical Sessions:

- Setting up a vermicomposting system
- Feeding, caring for, and harvesting vermicompost

11. Practical Demonstrations:

- -Study of useful species of Earthworm
- Dissection of digestive system of Earthworm
- Dissection of reproductive system of Earthworm
- -Study life cycle of earthworm
- -Rearing of Earthworm
- -Setting up of vermicomposting Unit (maintenance of physico-chemical factors, harvesting of vermicompost and vermiwash)

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli)

Department of Zoology

Short Term Course: Vermicomposting

TIMETABLE

Theory and Practical (Per week)

Year: 2022-23

Time	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
10.15-11.15 am	AMM	ABM	AAP			
08.30-10.30 am			Para	original of the second	AMM	AAP

AMM- Mrs. A. M. Momin

ABM- Mr. A. B. Mane

AAP- Ms A. A. Patil

Department of Zoology
Dr. Patangrao Kadam Mahavidhyalaya,
Ramanandnagar (Burli)

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli)

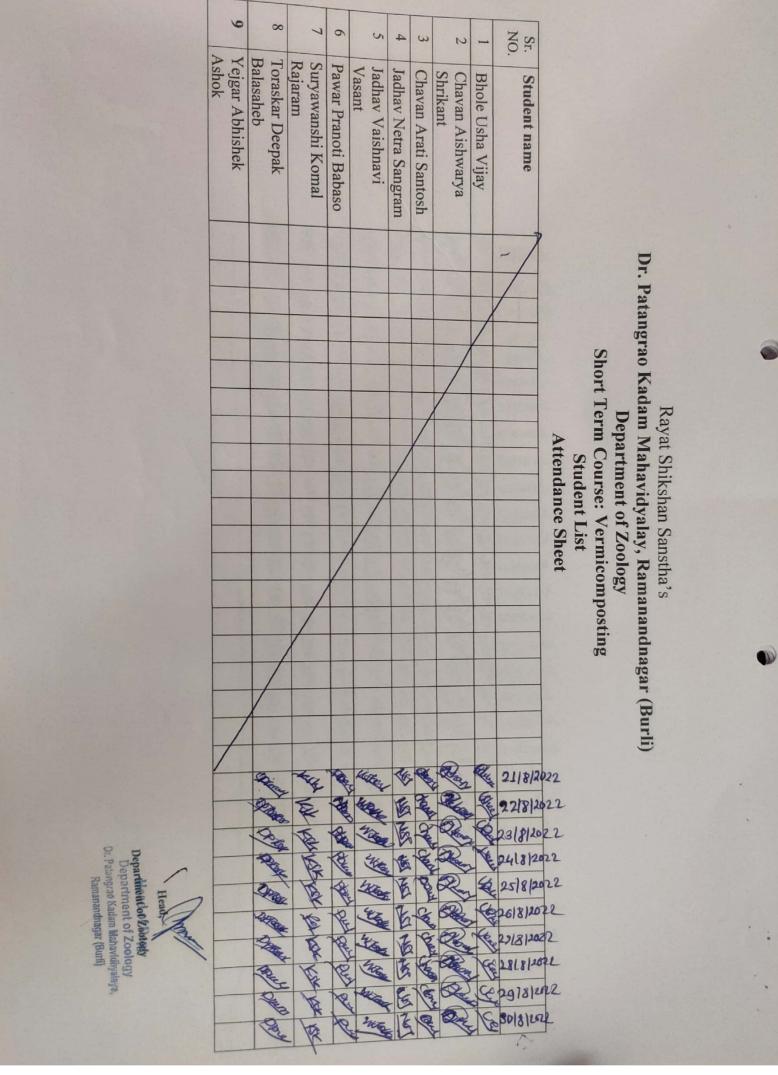
Department of Zoology

Short Term Course: Vermicomposting

Student List

Sr. No.	Roll No.	Student name
1	1701	Bhole Usha Vijay
2	1702	Chavan Aishwarya Shrikant
3	1703	Chavan Arati Santosh
4	1704	Jadhav Netra Sangram
5	1705	Jadhav Vaishnavi Vasant
6	1706	Pawar Pranoti Babaso
7	1707	Suryawanshi Komal Rajaram
8	1708	Toraskar Deepak Balasaheb
9	1709	Yejgar Abhishek Ashok

Head of Dept,
Department of Zoology
Dr. Patangrao Kadam Mahavidhyalaya,
Ramanandnagar (Burli)



Rayat Shikshan Sanstha's Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli) Department of Zoology

Short Term Course: Vermicomposting

Stu	dent Lis	t
	1 CL	

									At	ten	dan	ce S	She	et				1			1	1 3		2		1 1	4	3	=	22	
Sr. NO.	Student name	11912622	21912022	e1912022	419700	5/01/6/5	2001619	7191202	13/202	notel	2021619	1191202	20016K	13 19 12622	इ (मिशिकार	5 (519)3622	161912017		1818 Jac	जिल्ला के	2019 1204	21191267	2219122 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 Paris	36/9/20	100 1512 B	20010100	15 20 19120	9	20
1	Bhole Usha Vijay	Bec	Jan	Du	Me) of 13	poe	De)	m	UPUE	Jer)	Pre	Beck	Jew (ÚKSE V	Dear 1	1	J. J.	The same	M	6	J.	N	al de	NA C	YM2	370	1 Car	AT IN	XX R	5
2		Mary	Bud	ON	BY (3/6	D'Y	Or.	Carry C	W/	9	And C	8/0	No.	ON I	0		Cur	83 8	3/19	· us	000	ou so	10	026	Sal C	y P	and C	DI C	1 4/	*
3	Chavan Arati Santosh	my	uy	ay	CHE	gat (200	CH	Court	00	w	07	Jer Jer	ONT	الخاد	10			181	XC	751	241	121 4	12	77	ומא	72 ¢	1	2 (2	12 2	5
4	Jadhav Netra Sangram	HEZ	MET	reg	Net	na	M	ليرأن	42	M	Mar	May	LIE	50	Mary .	10	ال	101		, T		,		.1	7.34	1	JI.	ws.	, ut	(24)	199
5	Jadhav Vaishnavi	Wen	with	My	wJ	M	W	Tun	yeary	ing	MI	w	W	M	W	المس	my	15	2	Var.		m	M.	معد		ئے	7			2	1
	Vasant	(Part)	0-1	0	24	QA	برو	and	au	ou	Res	250	Red	Ry	pu	Pu	2	P	de	po	P	Pu	po	Py	P	P	20	بدع	The same	P	
7	Pawar Pranoti Babaso Suryawanshi Komal	Star.							8			KSK	KSK	use	KRY	vac	YE SE	KEK	KSY	اعظم	LERA	w	Kek	K84	CLAN	M	ysu.	non	JESSEL.	usk	184
8	Rajaram Toraskar Deepak	103	TOTS.	100	700	210	700	TRI	10	100																	BP			1383	
	Balasaneo	Kul	100	100	120	0	-																				-				
9	Yejgar Abhishek Ashok	-																								1	1	11)		

Department of Zaology Department of Zoology
Dr. Palangrao Kadam Mahavidhyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli) Department of Zoology

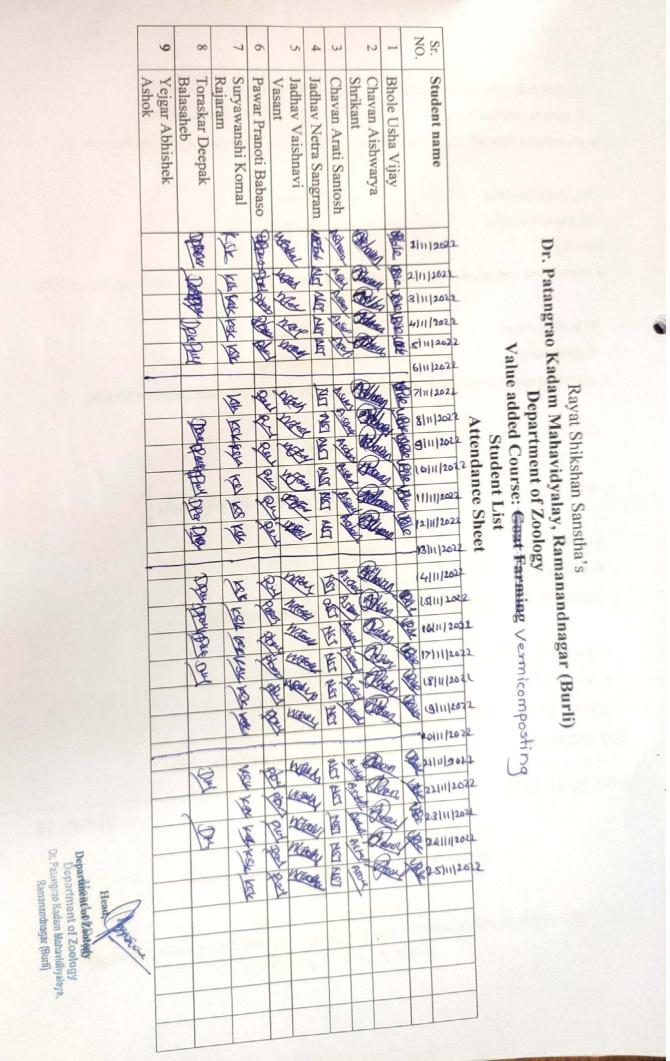
Short Term Course: Vermicomposting Student List

NO. 6 Sr. 4 w 2 Ashok Yejgar Abhishek Balasaheb Rajaram Toraskar Deepak Suryawanshi Komal Pawar Pranoti Babaso Jadhav Vaishnavi Jadhav Netra Sangram Bhole Usha Vijay Student name Chavan Arati Santosh Chavan Aishwarya THE PERMIT 1110/2022 在成为成为成 2/10/2022 2/10/2022 The same West Beer THE War. 100 Del Attendance Sheet THE The same The ON DES E 2 HO The third of the third E 6/10/202 17/10/202 18110/202 LE The ASS 191192022 Cort Sol 46 E 22/11/202 Wax 3

9

00





Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli) Department of Zoology

B. Sc. III

Short Term Course: Vermicomposting Question Paper 2022-2023

Date 25/11/2022

Marks 20

	111111111111111111111111111111111111111
Q.1 Select the correct alterna	ative and rewrite the sentences
1. What is the primary purpose of ve	
a) Producing electricity	b) Generating heat
c) Recycling organic waste	d) Purifying water
2. Which type of worms are common	nly used in vermicomposting?
a) Earthworms	b) Millipedes
c) Snakes	d) Ants
3. What should the ideal temperature	e range be for a vermicomposting bin?
a) 50-60°C	b) 25-30°C
c) 0-5°C	d) 80-90°C
Which of the following materials s	should NOT be added to a vermicomposting bin?
a) Fruit peels	b) Coffee grounds
c) Plastic waste	d) Newspaper
. What is the end product of vermico	omposting that is rich in nutrients and excellent for plant
rowth?	
a) Vermi-castings	b) Vermi-juice
c) Vermi-fertilizer	d) Vermi-soil
In vermicomposting, what is the rol	e of microorganisms in the decomposition process?
a) They are not involved	b) They break down organic matter
c) They help maintain temperature	d) They are harmful to the worms
	/ / MAY AMM HILLI III III MA/ATTYAC

7. How frequently should a vermic	composting bin be checked and maintained?	
a) Once a year	b) Monthly	
c) Weekly	d) Daily	
8. What is the key advantage of vera) Faster decompositionc) No need for worms	rmicomposting over traditional composting methods? b) Requires more space d) Produces more odors	
9. What pH level is considered optiona) Highly acidic (pH 2-3)c) Highly alkaline (pH 12-13)	mal for the vermicomposting process? b) Slightly acidic (pH 6-7) d) Neutral (pH 7)	
10. Which of the following is a suita Metal drum c) Wooden crate	able container for a home vermicomposting setup? b) Plastic bag d) Plastic bin with ventilation	a)





RAYAT SHIKSHAN SANSTHA'S

Dr. Patangrao Kadam Mahavidyalay Ramanandnagar (Burli)

DIST-SANGLI, MAHARASHTRA, INDIA-416 416

Certificate/ Add-On/ Value added Certificate

2022-23

Certificate

Coordinator

Head of Dept.

Department of Zoelogy

Dr. Patangrao Kadam Mahavidhyalaya,

Ramanandnagar (Burli)

RAMANUAL MARCHAN CONTRACTOR OF THE PROPERTY OF

Principal
Principal,
Dr. Patangrao Kadam Mahavidyalay
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangti.

Dr. Patangrao Kadam Mahavidyalay, Ramanandnagar (Burli)

Department of Zoology

Year: 2022-23

Short term certificate course in Vermicomposting

REPORT

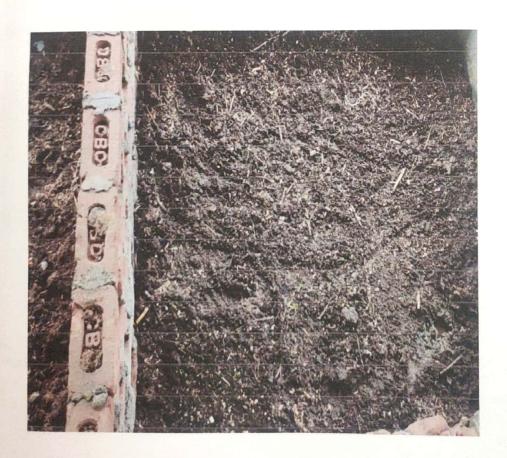
Department of Zoology has conducted the three month certificate course of "Vermicomposting". Now a days chemical fertilizers and pesticides are creating many problems such as decreasing fertility of soil and ultimately affecting on soil microfauna. To overcome these problems there is great need of vermicomposting. To solve the problem of salinity and infertility of soil up to certain extent, department of zoology has started the certificate course in vermicomposting for of B. Sc. III students. Department of Zoology has established vermicomposting unit in college campus. Two 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 vermicompost produced was used in college garden for healthy growth of plants. This course was conducted during the 21st August 2022 to 25th November 2022.

During this period the lectures and practical 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 the 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.



Esinia foetida



Vermicomposting





Harvesting of vermicompost of solid waste

(Momin A. M.)
Incharge of

course.

ful (Momin A.M.)
Head of Dept.

Head of Dept.

Department of Zoology

Dr. Patangrao Kadam Mahavidhyalaya,

Ramanandnagar (Burli)

Principal,

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli) Tal. Palus, Dist. Sangli.

