

**S.I.C.E.S. DEGREE COLLEGE OF ARTS, SCIENCE AND COMMERCE,
AMBERNATH (W)**



**Certificate course on
“Vermicomposting”
(For UG students of all streams
of SICES Degree college)**

Offered by

DEPARTMENT OF ZOOLOGY

**Fees :Rs.300/- . Number of intake :
20students**



**For details
Contact**



9892389320

Join the Skill enhancement course

**Understand the concept of vermicomposting,
Earn hands-on experience managing household waste
while learning and to become a self entrepreneur**

COURSE CO-ORDINATOR

Dr. Jyothi V.Mallia

**S.I.C.E SOCIETY'S
SICES DEGREE COLLEGE, AMBERNATH (W)
Academic Calendar 2023-2024**

Department of Zoology

Certificate course in “Hands on Training in Vermiculture

- Skill based course to understand the concept of vermin composting,
- Hands-on experience while learning
- Students can construct their own compost farm and can earn as 1 kg of vermin compost is about Rs.120/-
- Also can generate income by supplying vermiwash, live worms
- Students in flats can generate compost for house hold/Society's plants

Reducing Garbage is utmost necessary in today's world. So to sustain health and environment, join for recycling waste materials...

Learn the technique in our certificate course “Hands on Training in Vermiculture”



South Indian Children's Education Society's
Degree College of Arts, Science and Commerce
Jambhul Phata, Ambarnath - Badlapur Road, Ambarnath (west), 421505
Accredited by NAAC with B+ Grade
Permanently Affiliated to University of Mumbai

Academic Year 2023-24

CERTIFICATE COURSE APPLICATION FORM



1. Full Name VIVEK DURGAPRASAD DOVA
(In capital) (First Name) (Middle Name) (Surname)
2. Department BT BCA . Class _____
3. Roll number _____ . Date of Birth 25-09-2004 Age 18
4. Gender Male
5. Religion HINDU . Category Sc
6. Permanent Address Room No: 1617/4 Indira Colony
near Parvika Campus Ambarnath (West)
7. WhatsApp/Contact No: 9096136607 . E-mail Id dovavivek@gmail.com
8. Name of the Certificate Course VERMICOMPOSTING

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Place: Ambarnath

Date: 23/8/23

[Signature]
Signature of the Applicant

For Office Use only

Application No. 10

Date Received 23/8/2023

Total Course Fee: 300/-

Fee paid receipt no. 710

Verification (Clerk) _____

[Signature]
Course Co-Ordinator

[Signature]
Head of the Department

[Signature]
Principal



South Indian Children's Education Society's
Degree College of Arts, Science and Commerce
Jambhal Phata, Ambarnath - Bodliapur Road, Ambarnath (West) 421505
Accredited by NAAC with B+ Grade
Permanently Affiliated to University of Mumbai

Academic Year 2023-24

CERTIFICATE COURSE APPLICATION FORM



1. Full Name YADNIKA SAKHHRRAM TOSHI
(In capital) (First Name) (Middle Name) (Surname)
2. Department Microbiology Class FyBsc
3. Roll number FM23005 Date of Birth 9.1.2005 Age 18
4. Gender Female
5. Religion Hindu Category Mahadv Koli
6. Permanent Address Near Mani Company, Khamkarwad, Ambarnath (W)
7. WhatsApp/Contact No: 8446012032E-mail Id yadnika.toshi@gmail.com
8. Name of the Certificate Course Vermicoposhing

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Place: _____
Date: 22/08/2023 Ambarnath Signature of the Applicant 

For Office Use only

Application No. 09 Date Received 22/8/23
Total Course Fee: 300/- Fee paid receipt no. 709
Verification (Clerk) _____

Course Co-Ordinator


Head of the Department

Principal



South Indian Children's Education Society's

Degree College of Arts, Science and Commerce

Jambhul Phata, Ambarnath - Bodlapur Road, Ambarnath (West), 421505
Accredited by NAAC with B+ Grade

Permanently Affiliated to University of Mumbai

Academic Year 2023-24

CERTIFICATE COURSE APPLICATION FORM



1. Full Name SHRISTI RAJKANAL RAJBHAR
(In capital) (First Name) (Middle Name) (Surname)
2. Department Commerce class PYB.com.
3. Roll number PC 42 . Date of Birth 23/10/2005 Age 18
4. Gender Female .
5. Religion Hindu . Category Student .
6. Permanent Address 101/PA, Satygm Pride Bldg.,
Opp. to Sarvodaya gate, Ambarnath (W), 421505
7. WhatsApp/Contact No: 98212264745 E-mail Id shreyakumari@rajbar@gmail.com
8. Name of the Certificate Course Verni compositiong .

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Shristi

Signature of the Applicant

Place:
Date: 21/10/23

For Office Use only

Application No. 06 . Date Received 21/10/2023
Total Course Fee: 300/- Fee paid receipt no. 706 .
Verification (Clerk) _____ .

[Signature]

Course Co-Ordinator

[Signature]

Head of the Department

Principal



South Indian Children's Education Society's
Degree College of Arts, Science and Commerce
Jambhul Phata, Ambarnath - Bodlapur Road, Ambarnath (west) 421505
Accredited by NAAC with B+ Grade
Permanently Affiliated to University of Mumbai

Academic Year 2023-24

CERTIFICATE COURSE APPLICATION FORM



1. Full Name DARSHAN RAJENDRA UPADHYAY
(In capital) (First Name) (Middle Name) (Surname)
2. Department ZOOL 06Y Class F.Y.BSC
3. Roll number FS23006 Date of Birth 12-03-2006 Age 17
4. Gender Male Category OPEN
5. Religion BRAHMAN paradise
6. Permanent Address E-402, Mahalaxmi, Barvi Dam road Ambarnath (w)
opp. Gaon devi school madir Barvi Dam road Ambarnath (w)
6869
7. WhatsApp/Contact No: 9841076998 E-mail ldorshirajcollection@gmail.com
6869
8. Name of the Certificate Course Verni composition

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Place: _____
Date: Ambarnath 11/08/23 Signature of the Applicant

For Office Use only

Application No. 2101 Date Received 18/8/2023
Total Course Fee: 300/- Fee paid receipt no. 701
Verification (Clerk) _____

Course Co-Ordinator  Head of the Department  Principal

Academic Year 2023-24

CERTIFICATE COURSE APPLICATION FORM



1. Full Name Adwait (First Name) Maruti (Middle Name) Gaikar (Surname)
(In capital)
2. Department Zoology Class B.Sc (FY)
3. Roll number PM123010 Date of Birth 09/10/2005 Age 17
4. Gender Male
5. Religion Hindu-Agryi Category OTC
6. Permanent Address House No: 28, Kothraj Gawn, Near
Ramesh Kirana Store, Badlapur (E)
7. WhatsApp/Contact No: 9523090675 E-mail Idharusfi.gaikar21K@gmail.com
8. Name of the Certificate Course Normiculture

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Adwait Gaikar
Applicant

Signature of the Applicant

Place:

Date: 16Aug, 2023

For Office Use only

Application No. 63

Date Received 19/08/23

Total Course Fee: 800/-

Fee paid receipt no. 963

Verification (Clerk) _____

Course Co-Ordinator

Head of the Department

Principal

Department of Zoology

Certificate course in "Vermicomposting"

Syllabus

- Unit 1 Vermiculture: 5L
Definition, Scope and importance, common species for culture, - breeding technique indoor and outdoor culture. Diffence between compost and Vermicompost
Monoculture & polyculture Merit &demerit
- Unit 2: Application 6L
Vermicomposting of wastes in fieldpits, ground heaps, tank method, wedges & bin method,Application of Vermiculture
- Unit 3: Product 5L
Potential and constraints for vermiculture in India, vermiculture-quality control, , Funding facilities
- Practical: 6L
1. Waste material classification and disposal & Quality checking
 2. Field study 8L
 - a) Introduction to different species of Earth worms
 - b) Earth worm bed preparation
 - c) Vermicompost/Compost preparation
- Fees structure: Rs.300/-. Number of intake 20students

Outcome

The course will make the students self sufficient with professional skills to change the organic wastes into valuable compost also impart knowledge of conserving soil by changing waste disposal habits. Also will develop technical skills on harvesting and management of vermicompost


Dr. Jyothi V. Mallia

Co-ordinator

Department of Zoology

Certificate course in "Vermicomposting"

Report

Department of Zoology organized a certificate course on Vermicomposting to empower students to the skills of changing organic waste into Compost/ Organic waste. Of the 16 students collected forms 10 students enrolled for the course of which 6 students successfully completed the course. The candidates were of FYBSc and SYBCA and the classes were begin from August 26,2024. A Field trip was organized at NISARGYAN- A bioresource Centre, Manmoli Gaon to get a practical skill and hands on experience to the candidates on 1st October 2024 and students learned the skill of Vermiculture of the *Eisenia foetida*

Out come

1. Students realized the importance of sustainable waste management technique
2. Students understood different types of waste and importance of segregating them
3. Students got hands on experience for making compost/Vermicompost
4. Students imparted the knowledge of maintaining soil fertility
5. One student started a farm and successfully produced compost after 2 months and started venture as a entrepreneur
6. Oral presentation was made at International conference on topic entitled Vermicomposting – sustainable solid waste management technique


Dr. Jyothi V. Mallia

Department of Zoology

Certificate course in "Vermicomposting"

Attendance of Students

Sr. no.	Name of Students	Class	26/08	02/09	09/09	30/09	01/10	07/10	14/10	24/01	25/01	27/01
1	Adwait M Gaikar	FYBSc	P	P	P	P	A	A	A	A	A	P
2	Darshan R.Uadhyay	FYBSc	P	P	P	P	P	P	P	P	P	P
3	Satyendra K. Dubey	FYBSc	P	P	P	P	P	P	P	P	P	P
4	Shristi R.Rajbhar	FYBCom	P	A	B	S	E	N	T			
5	Juli S.Tupe	FYBSc	P	P	P	P	P	P				P
6	Yadnika S.Joshi	FYBSc	P	P	P	P	P	P		P	P	P
7	Bhumika R.Meshram	FYBSc	A	A	A	A	A	A	A	A	A	
8	Vivek D.Dova	SYBCA	P	P	P	P	P	P		P		P
9	Sanika C.Todge	FYBSc	A	J	Not	paid	fee	and	absent	for	All	classes.
10	Ritu JG	FYBSc	A	J	A	absent.						

Dr. Jyothi V.Mallia

Co-ordinator



S.I.C.E.S Degree College of Arts, Science & Commerce
Jambhul Phata, Chikhholi, Ambarnath (W)-421505
Accredited by NAAC with B+ Grade (CGPA-2.62)
(Affiliated to University Of Mumbai)

DEPARTMENT OF ZOOLOGY

EVALUATION OF CERTIFICATE COURSE IN VERMICOMPOSTING

DATE 01/02/2024.

Sr.No.	Name	Project report 10	Presentation 10	Test 15	Attendance 5	Total 40	Grade
1.	Pransav Upadhyay	7	7	13	5	31	A+
2.	Adwait Gaikar	-	3	13	3	19	C
3.	Satyendra Dubey	8	7	10	5	30	A+
4.	Yadnita Sakshama Teshi	8	8	12	5	33	O
5.	Jishi. S. Jape	8	6	13	4	31	A+
6.	Vivek. D. Dora	-	9	11	4	24	A

Dr. Jyothi V. Mallia
Co-ordinator



DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN VERMICOMPOSTING

All the questions are Compulsory

Each question carries equal marks (1M)

Total 15 Marks

Time 30 minutes

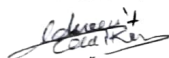
Tick the Correct answer

1. Which of the following is a commonly used earthworm species for the vermicomposting process?
 (a) *Eisenia fetida*
 (b) *Perionix fetida*
 (c) Both (a) and (b)
 (d) None of the above
2. The highly decomposed organic matter rich in minerals like nitrogen, phosphorus, and potassium, in particular, produced from the activity of earthworms is called _____.
 (a) Humus
 (b) Vermicompost
 (c) Worm casting
 (d) Compost bedding
3. Vermicompost is used as a biofertilizer because it is rich in _____.
 (a) Calcium
 (b) Nitrogen
 (c) Phosphorus
 (d) All of the above
4. Which of the following is false about vermicomposting?
 (a) Worms population doubles in 90 days
 (b) Worms eat double their body weight
 (c) The wooden bin is best for vermicomposting
 (d) Red worms are the best for vermicomposting
5. Which of the following is true about vermicomposting?
 (a) Composting using rats
 (b) Composting using birds
 (c) Composting using worms
 (d) All of the above
6. Which of the following is true about vermicompost?
 (a) Vermicompost is red in colour
 (b) Vermicompost is black in colour
 (c) Vermicompost is white in colour
 (d) Vermicompost is brown in colour
7. Which of the following are the best worms used for composting?
 (a) Maggots
 (b) Pink worms
 (c) Red wigglers
 (d) All of the above

8. The moisture level required for vermicomposting should be between _____
- (a) Below 30 per cent
 - (b) 40 and 50 per cent
 - (c) 70 and 80 per cent
 - (d) Above 90 per cent
9. The maximum temperature required for vermicomposting is _____
- (a) 20C to 25C
 - (b) 25C to 30C
 - (c) 30C to 35C
 - (d) 35C to 40C
10. Which of the following is not raw material required for preparing composts?
- (a) Cow dung
 - (b) Weed biomass
 - (c) Dry straw and leaves
 - (d) All of the above
11. Which of the following procedures are used by the farmers to multiply the earthworms?
- (a) By adding cow dung
 - (b) By adding plant materials
 - (c) By mixing more amount of biodegradable wastes
 - (d) All of the above
12. A liquid that is collected after the passage of water through a column of worm action and is very useful as a foliar spray.
- a) Vermiwash
 - b) Vermisol
 - c) Vermilin
 - d) Vermitol
13. The ideal carbon-to-nitrogen ratio for composting is
- a) 25 to 30 parts carbon for every one part nitrogen
 - b) 50 to 55 parts carbon for every one part nitrogen
 - c) 10 to 15 parts carbon for every one part nitrogen
 - d) 40 to 45 parts carbon for every one part nitrogen
14. Which of the following worms are used for vermicomposting?
- a. Flatworm
 - b. Roundworm
 - c. Redworm
 - d. Pinworm
15. Choose the correct statement regarding compost:
- a. Decomposed remnants of organic material
 - b. Decomposed remnants of inorganic material
 - c. Fresh remnants of organic material
 - d. Fresh remnants of inorganic material

Name of Candidate: Adwait Gaikar

Signature with date 27/1/24





Accredited by NAAC with B+ Grade (CGPA-2.62)
(Affiliated to University Of Mumbai)

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE IN VERMICOMPOSTING

All the questions are Compulsory

Each question carries equal marks (1M)

Total 15 Marks

Time 30 minutes

Tick the Correct answer

1. Which of the following is a commonly used earthworm species for the vermicomposting process?

- (a) *Eisenia fetida*
- (b) *Perionix fetida*
- (c) Both (a) and (b)
- (d) None of the above

2. The highly decomposed organic matter rich in minerals like nitrogen, phosphorus, and potassium, in particular, produced from the activity of earthworms is called _____.

- (a) Humus
- (b) Vermicompost
- (c) Worm casting
- (d) Compost bedding

3. Vermicompost is used as a biofertilizer because it is rich in _____.

- (a) Calcium
- (b) Nitrogen
- (c) Phosphorus
- (d) All of the above

4. Which of the following is false about vermicomposting?

- (a) Worms population doubles in 90 days
- (b) Worms eat double their body weight
- (c) The wooden bin is best for vermicomposting
- (d) Red worms are the best for vermicomposting

5. Which of the following is true about vermicomposting?

- (a) Composting using rats
- (b) Composting using birds
- (c) Composting using worms
- (d) All of the above

6. Which of the following is true about vermicompost?

- (a) Vermicompost is red in colour
- (b) Vermicompost is black in colour
- (c) Vermicompost is white in colour
- (d) Vermicompost is brown in colour

7. Which of the following are the best worms used for composting?

- (a) Maggots
- (b) Pink worms
- (c) Red wigglers
- (d) All of the above



SICES Degree College of Arts, Science & Commerce
Jambhul Phata, Chikhli, Ambarnath (W)-421505
Accredited by NAAC with B+ Grade (CGPA-2.62)
(Affiliated to University Of Mumbai)

Date: 26.09.2023

NOTICE

All the students of Certificate course in "Vermicomposting" and S.Y.B.Sc Zoology are hereby informed that the Department of Zoology has organized a "FIELD TRIP TO Nisargyan – A BioResource centre, Badlapur East on 1st October 2023, Sunday from 08:00 am to 5:00 pm. All the students should carry writing materials and dress properly with shoes for the field trip. Also submit the undertaking forms by 30.09.2023 (Saturday)

Dr. Jyothi V. Mallia

(IOD, Department of Zoology)

Dr. Swapna Samel
Principal





Sree Sree Degree College of Arts, Science & Commerce

Chhatrapati Phule Chikhli, Andheri (W), Mumbai - 400 055

Phone: 022-26081201, 26081202

Fax: 022-26081203

UNDERTAKING FOR STUDY TRIP

SHANKAR TUPE

(Name of Parents) and my son/daughter ✓

Juili. S. Tupe

Roll No.

FMI23001

for one day field trip to Vermiculture farm

Nisargyan Bio Resource Centre, Manmoli Gaon, Mumbai - 400 110, 2023 (Sunday, 8th July)

1:00 pm

7558624568

Mobile number of Student

7620710572 / 9969033368

Mobile number of parent

Signature of parent



S.I.C.E.S Degree College of Arts, Science & Commerce
Jambhul Phata, Chikhlioli, Ambarnath (W)-421505
Accredited by NAAC with B+ Grade (CGPA-2.62)
(Affiliated to University Of Mumbai)

UNDERTAKING FOR STUDY TRIP

I Jyoti Sakharan Joshi

(Name of Parent) agree to send my son/daughter

Xadnika Joshi

Roll No

FM I 23005

for one day field trip to Vermiculture farm,
Nisargyan- Bio Resource Centre, Manmoli Gaon on 01.10.2023 (Sunday, 8.00 am
- 5.00 pm)

Mobile number of Student: 9284223664

Mobile number of parent 8446012032

J.S. Joshi
Signature of parent

Details of Vermicompost farm Started by Student Name Mr. Vivek Durga Prasad Dova



VERMI - COMPOST

Vermicompost enriches soil with essential nutrients, improves soil structure, and enhances plant growth, making it an eco-friendly and effective organic fertilizer for gardens and farms

Vermicompost consists of organic waste transformed into nutrient-rich soil by worms, offering a natural fertilizer solution.

HOW TO USE?
Mix vermicompost into the soil before planting or apply it as a top dressing around existing plants to provide nutrients and improve soil health for optimal growth.

100% ORGANIC

GREENINNOV8
Nourishing Earth, Naturally.

SPECIAL OFFER

1 Kgs - ₹ 50.00
5 Kgs - ₹ 250.00
10 Kgs - ₹ 490.00
50 Kgs - ₹ 2,200.00

 @Greeninnov8

 Greeninnov8

 @Greeninnov8

 +91 8108911111

 Nalimbi Village, Ambernath - Titwala Road, Thane Dist. Maharashtra - 421301. INDIA