



TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE  
FOR WOMEN, SIRCILLA  
AT THANGALLAPALLY, SIRCILLS  
RAJANNA-SIRCILLA DIST., TELANGANA

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# DEPARTMENT OF ZOOLOGY

VALUE ADDED / CERTIFICATE  
COURSE



ACADEMIC YEAR

2025 - 2026

TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE  
COLLEGE FOR WOMEN, SIRCILLA

To  
The Principal,  
TGTWRDC (W),  
SIRCILLA.

Madam,

Sub: Department of Zoology – Request for Permission to start a Certificate Course in  
Zoology – reg.

Ref: Resolution taken in department meeting dated: 09/06/2025.

Adverting to the subject and reference cited above, the resolution is taken in  
departmental meeting held on 09/06/2025 to start a certificate course in zoology  
entitled “VERMICULTURE” from 01/07/2025. This course is useful to all the  
students. Duration of the course will be four weeks.

Hence, I request you to accord permission to start the above mentioned certificate  
course.

1

Yours Faithfully,

*M. V. V. V.*  
11/06/25

M. V. V. V.  
DH in Zoology

*A. S. S. S.*  
—

*Jaya*  
Principal  
TGTWRDC (W)  
SIRCILLA

# **NOTICE**

**Date: 21/06/2025**

**This is to inform the students that the Department of Zoology, TGTWRDC(W), SIRCILLA will conduct a Certificate Course on “Vermiculture” from 01/07/2025.**

**Therefore, interested candidates are requested to enroll for admission on or before 30/06/2025 from the concerned department. The total number of enrollments is limited to 20, and admission will be on a first-come, first-served basis.**

**Last date of registrations : 30/06/2025**

**Commencement of certificate course : 01/07/2025**

**Total teaching hours : 30**

## Course Objectives:

- **Understand Fundamentals:** Provide comprehensive knowledge of vermicomposting principles, earthworm species, and their role in nutrient cycling.
- **Waste Management:** Educate on converting organic waste (food scraps, paper) into organic fertilizer, promoting environmental sustainability.
- **Practical Skill Development:** Train participants in hands-on techniques, including site selection, vermi-bed preparation, earthworm inoculation, and vermish production.
- **Economic Empowerment:** Promote entrepreneurship by teaching the commercial production, packaging, and marketing of vermicompost.
- **Scientific Application:** Teach scientific methods for monitoring and troubleshooting to produce high-quality compost.

## Course Outcomes:

- **Technical Proficiency:** Participants can successfully establish and maintain a productive, hygienic, and safe vermicomposting unit.
- **Sustainable Waste Management:** Graduates can apply techniques to reduce landfill waste through household or commercial organic waste recycling.
- **Entrepreneurial Skills:** Graduates can initiate and manage their own vermicompost business (vermitechnology) as a profitable enterprise.
- **Agricultural Improvement:** Participants can produce high-quality bio-fertilizer that improves soil fertility, boosts crop yield, and supports organic farming.
- **Environmental Responsibility:** Participants develop a commitment to sustainable environmental practices, such as reducing pollution and enhancing biodiversity.

## **Syllabus :**

### **Unit-1: Introduction to Vermiculture**

1. Vermiculture- definition, meaning, history, economic importance, value in maintenance of soil structure.
2. Role in bio transformation of the residues generated by human activity and production of organic fertilizers.
3. Useful species of Earthworm-Local and exotic species of earthworm.

### **Unit-2: Vermicomposting**

1. Small Scale earthworm farming for home gardens.
2. Conventional Commercial composting- earthworm composting larger scale (Pit, brick and heap systems and slab method).
3. Earthworm farming, extraction(harvest).
4. Enemies of earthworms, sickness and worm's enemies; frequent problems- prevention and fixation.

### **Unit-3: Applications of Vermiculture**

1. Benefits of Vermicompost, Use of Vermicompost in agriculture.
2. Problems in vermicomposting, vermicomposting of dairy waste.

List of Students selected from Registration

29

LIST OF STUDENTS REGISTERED

S.No	Name	Group	Group	Signature
1	A. Tejasri		Lifescience-II	A. Tejasri
2	B. Rajeshwari		Lifescience-II	B. Rajeshwari
3	T. Shylaja		Lifescience-II	T. Shylaja
4	B. Swarna		Lifescience-II	B. Swarna
5	M. Madhuri		Lifescience-II	M. Madhuri
6	B. Sravani		MPCS-II	B. Sravani
7	R. Harika		MPCS-II	R. Harika
8	S. Amulya		MPCS-II	S. Amulya
9	U. Gayathri		MPCS-II	U. Gayathri
10	A. Kalyani		MPCS-II	A. Kalyani
11	A. Vennela		B.com-CA-II	A. Vennela
12	B. Sonia		B.com-CA-II	B. Sonia
13	G. Srivani		B.com-CA-II	G. Srivani
14	M. Shrishta		B.com-CA-II	M. Shrishta
15	N. Nirosha		B.com-CA-II	N. Nirosha
16	A. Akhila		B.A-II	A. Akhila
17	B. Divya		B.A-II	B. Divya
18	B. Jeshika		B.A-II	B. Jeshika
19	K. Mythili		B.A-II	K. Mythili
20	P. Akshitha		B.A-II	P. Akshitha

TGTWRDC(W), SIRCILLA

Attendance of Value added course

Academic Year : 2025-26

Course Name : VERMICULTURE

Department : ZOOLOGY

S.no	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	21	22	23	24	25	26	27	28	29	30									
1	A TEJASRI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P									
2	B RAJESHWARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P									
3	T SHYLAJA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P								
4	B SWARNA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
5	M MADHURI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P						
6	B SRAVANI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
7	R HARIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
8	S AMULYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
9	U GAYATRI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
10	A KALYANI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
11	A VENNELA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
12	B SONIYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13	G SRIVANI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
14	N SHIRISHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	N NIROSHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	A AKHILA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	B DIVYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	B JESHIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	K MYTHILI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	TP AKHITHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

M. Sanyal  
I/C of the Department

Jaya  
Principal

## Department of Zoology - Certificate Course: Evaluation

### Test on Vermiculture

1. What is the primary raw material used in vermicomposting?

- a) Kitchen scraps      c) Glass bottle
- b) Plastic waste      d) Paper towels

2. Which type of worms are commonly used in vermicomposting?

- a) Earthworms    b) Millipedes
- c) Centipedes    d) Snails

3. What is the ideal temperature range for vermicomposting?

- a) 0-10°C      c) 40-50°C
- b) 20-30°C    d) 60-70°C

4. What should be the moisture content in a vermicomposting bin?

- a) 10-20%      c) 50-60%
- b) 30-40%      d) 70-80%

5. Which bedding material is commonly used for worms in vermicomposting?

- a) Sand              b) Gravel
- c) Cardboard      d) Plastic sheets

6. What is the key nutrient-rich byproduct obtained from vermicomposting?

- a) Pesticides      c) Vermicast
- b) Herbicides      d) Fertilizers

7. What is the process of breaking down organic materials by worms called?

- a) Decomposition    c) Transmutation
- b) Fermentation      d) Crystallization



## RESULT ANALYSIS

S.no.	Name of the student	Group	Marks Obtained
1	A TEJASRI	Life Science II	14/15
2	B RAJESHWARI	Life Science II	14/15
3	T SHYLAJA	Life Science II	13/15
4	B SWARNA	Life Science II	14/15
5	M MADHURI	Life Science II	15/15
6	B SRAVANI	MPCs II	13/15
7	R HARIKA	MPCs II	12/15
8	S AMULYA	MPCs II	11/15
9	U GAYATRI	MPCs II	15/15
10	A KALYANI	MPCs II	15/15
11	A VENNELA	B.Com II	13/15
12	B SONIYA	B.Com II	14/15
13	G SRIVANI	B.Com II	14/15
14	N SHIRISHA	B.Com II	14/15
15	N NIROSHA	B.Com II	13/15
16	A AKHILA	B.A. II	13/15
17	B DIVYA	B.A. II	15/15
18	B JESHIKA	B.A. II	13/15
19	K MYTHILI	B.A. II	15/15
20	TP AKHITHA	B.A. II	14/15





# TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN SIRCILLA



## CERTIFICATE

### OF PARTICIPATION

This certificate is proudly presented to

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for successful completion of the "**VERMICULTURE**" held as a part of the Certification Course conducted by the "**DEPARTMENT OF ZOOLOGY**" in the month of July to August 2025 for 30 hours, and underwent an evaluation process. The participant has obtained a grade

**HOD**

**Principial**

