

**STSN GOVT DEGREE COLLEGE, KADIRI**

**SRI SATHYA SAI DISTRICT, AP**

**DEPARTMENT OF SERICULTURE**



**CERTIFICATE COURSE**

**ON**

***WASTE RECYCLING INTO VERMICOMPOST***

Date:26/11/2021

## **RESOLUTION**

It is resolved that the department of *Sericulture* unanimously decided, to conduct a 45 days certificate course in computer basics for the final year B.sc., CZS students of this college. The course schedule will be from 2nd of December, 2021 to 15th of January, 2022. After successful completion of course an examination should be conducted in the Vermi Compost for both theory & practical and distribution of certificates to the students. The course description and objectives along with syllabus are attached to this copy.

Sericulture Faculty

M. Santhoshikumar  
B. Suvitha

From  
Department of Computer Science  
STSN Govt Degree College  
Kadiri-515 591

To  
The Principal  
STSN Govt Degree College  
Kadiri-515 591

**Subject:** Request for Permission to Conduct Certificate Course in *WASTE RECYCLING INTO VERMICOMPOST*

Respected Madam,

I trust this letter finds you well. I am writing to seek permission to conduct a certificate course in *WASTE RECYCLING INTO VERMICOMPOST*. as this process in which earthworms convert the organic waste into manure rich in high nutritional content this method will greatly benefit to our students how convert waste materials into can be used in agriculture purpose.

**Course Details**

**Course Name:** *WASTE RECYCLING INTO VERMICOMPOST*

**Duration:** 35 Days (02.12.2020 to 15.01.2021)

**Group:** I CZS

**Course Content:**

- Vermiwash Collection
- Study Of Worm Diseases & Enemies
- Benefits Of Microbes

We kindly request your approval for the proposed certificate course. We are more than willing to provide any additional information or address any concerns you may have. Your support in this endeavor is highly valued, and we believe it will significantly enhance the educational offerings at STSN GDC, Kadiri.

Thank you for considering our request. We look forward to your positive response.

Permit  
Principal  
STSN Govt. DEGREE COLLEGE  
KADIRI - 515 591

M. Sauthoshikumar  
B. Suitha

# CIRCULAR

27-11-2021

This is to inform that the Department of *Sericulture* is going to conduct a Certificate course in **WASTE RECYCLING INTO VERMICOMPOST**. This course may be useful for students who will gain more knowledge about Vermicomposting, a natural process whereby earthworms convert waste material with rigid structures into compost. This course may be useful to the students gain knowledge about Composting Conservation. In this regard, enroll their names in the Department of *Sericulture* on or before 30.11.2021.

Department of Sericulture

## Course Details

**Course Name:** *Waste Management Of Vermicomposting.*

**Duration:** 45 Days (02.12.2021 to 15.01.2022)

**Group:** I CZS

## Course Content:

- Vermiwash Collection
- Study Of Worm Diseases & Enemies
- Benefits Of Microbes

## ***COURSE DESCRIPTION AND OBJECTIVES***

### **COURSE DESCRIPTION**

Department of Sericulture prestigiously introduced 45 days of certificate course in **WASTE RECYCLING INTO VERMICOMPOST** This course may be useful for students will get more knowledge about Vermicomposting is a natural process Whereby earthworms convert waste material with rigid structures into compost. This course may be useful to the students gain knowledge about Composting Conservation

### ***COURSE OBJECTIVES :***

- The main objective of vermicomposting project is to produce organic manure of exceptional quality for the organically starved soil.
- Students will get knowledge of how recycling converts organic materials that have traditionally been viewed as waste into a valuable soil amendment for plants and crops.
- Students will be know about different earthworms.
- Students will be get More Knowledge on Composting It promotes better root growth and nutrient absorption.
- Students will be get more knowledge how to Vermicompost can be used in organic farming and small scale sustainable farming. Vermicompost has several excellent properties and has many advantages when applied to the soil. Vermicompost is an excellent nutrient-rich organic fertiliser, which helps plants to grow well and give better yields.

### ***STUDENT LEARNING OUTCOMES***

After Successful Completion Of The Course Students Will Have The Knowledge And Skills &Including

- Acquire a critical knowledge on role of earth worms in making organic matter from biodegradable wastes.
- Understand the biology of some important species of earth worms used in vermiculture.
- Acquire skills on production of vermicompost.& Students will be get knowledge on composting less space is need
- Explain benefits and problems with vermiculture and vermicompost
- Students will be get more knowledge how Earthworm gut play a vital role in the process of nutrient solubilization, bioremediation, And fortification of thr beneficial microbe population.
- Students will be get knowledge on composting less space is ne

**STSN GOVT DEGREE COLLEGE KADIRI**

**SRI SATHYA SAI DISTRICT, AP.**

**DEPARTMENT OF SERICULTURE**

**SYLLABUS ON WASTE RECYCLING INTO VERMICOMPOST**

**Unit -1: Introduction to vermiculture**

1. Definition, meaning, history, economic importance, value in maintenance of soil structure, role as four's of recycling (reduces, reuse, recycle and restore).

2 Role in bio transformation of the residues generated by human activity and production of organic fertilizers.

**Unit -2 Worm Species**

1. The matter and humus cycle (product, qualities). ground population, transformation process in organic matter

2. Useful species of earthworms, local and exotic species of earthworms; complementary activities of auto-evaluation; key to identify the species of earthworms.

**Unit-4 Vermicomposting**

1. Small scale earthworm farming for home gardens - earthworm compost for home gardens.

2. Conventional commercial composting - earthworm composting larger scale (pit, brick and, heap systems).

3. Earthworm farming, extraction (harvest), vermicomposting harvest and processing.

4. Vermiwash collection, composition and use.

**Unit-5: Applications of vermiculture**

1. Benefits of vermicompost, Use of vermicompost in agriculture.

2. Basic characteristics of earthworm suitable for vermicomposting

**STSN GOVT DEGREE COLLEGE KADIRI**  
**DEPARTMENT OF SERICULTURE**  
**CERTIFICATE COURSE TIMETABLE**

S.NO	DATE	TOPIC
1	2/12/2021	Definition, Meaning, History OF VERMICOMPOST
	3/12/2021	
2	4/12/2021	Economic Importance OF VERMICOMPOST
	5/12/2021	
3	6/12/2021	Value In Maintenance Of Soil Structure,
	7/12/2021	
4	8/12/2021	Role As Four's Of Recycling(Reduces, Reuse, Recycle And Restore).
	9/12/2021	
5	10/12/2021	Role In Bio Transformation Of The Residues Generated By Human Activity
	11/12/2021	
6	12/12/2021	Production Of Organic Fertilizers.
	13/12/2021	
7	14/12/2021	1.The Matter And Humus Cycle (Product, Qualities
	15/12/2021	
8	16/12/2021	Ground Population, Transformation Process In Organic Matter
	17/12/2021	
9	18/12/2021	Useful Species Of Earthworms,
	19/12/2021	
	20/12/2021	
10	21/12/2021	Local And Exotic Species Of Earthworms;
	22/12/2021	
11	23/12/2021	Complementary Activities Of Auto-Evaluation;
	24/12/2021	

12	27/12/2021	Key To Identify The Species Of Earthworms.
	28/12/2021	
13	29/12/2021	.Small Scale Earthworm Farming For Home Gardens -
	30/12/2021	
14	31/12/2021	Earthworm Compost For Home Gardens.
	1/1/2022	
15	2/1/2022	.Conventional Commercial Composting -
	3/1/2022	
16	4/1/2022	Earthworm Composting Larger Scale (Pit, Brick And, Heap Systems).
	5/1/2022	
17	6/1/2022	Earthworm Farming, Extraction (Harvest)
	7/1/2022	
18	8/1/2022	Vermicomposting Harvest And Processing.
	9/1/2022	
19	10/1/2022	Vermiwash Collection, Composition And Use.
	11/1/2022	
20	12/1/2022	Benefits Of Vermicompost,
21	14/1/2022	Use Of Vermicompost In Agriculture.
22	15/1/2022	Basic Characteristics Of Earthworm Suitable For Vermicomposting

**STSN GOVT DEGREE COLLEGE KADIRI****DEPARTMENT OF SERICULTURE****LIST OF STUDENTS PARTICIPATED IN CERTIFICATE COURSE**

<b>S.NO</b>	<b>NAME OF THE STUDENT</b>	<b>GROUP</b>	<b>YEAR</b>	<b>SEMESTER</b>	<b>REMARKS</b>
1	<b>B.MAHESH</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
2	<b>J.APARNA</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
3	<b>J.MANO HAR</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
4	<b>K.THARUN NAIK</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
5	<b>K.SURESH BABU</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
6	<b>M.PAVAN KALYAN</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
7	<b>M.MANASA</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
8	<b>N.BHAVANI PRASAD</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
9	<b>O.YAMUNA</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
10	<b>P. DEVENDRA</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
11	<b>P. CHANDANA</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
12	<b>P.ABUBAK SIDDIK</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
13	<b>P. VEERA PRASAD</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
14	<b>P.SAI V INAY</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
15	<b>R.BALAJI NAIK</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
16	<b>S.DURGA PRASAD</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
17	<b>U.GIRISH</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
18	<b>U. KIRAN BABU</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
19	<b>Y. SURESH</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
20	<b>Y. RAJU</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED
21	<b>Y. BABU</b>	CZS	I <sup>ST</sup> YEAR	II <sup>ND</sup> SEM	CERTIFICATE ISSUED

**STUDENT SIGNATURE LIST**

S.NO	REGISTER NUMBER	STUDENT NAME	STUDENT SIGNATURE
1	2142005622002	B.MAHESH	B. Mahesh
2	2142005622005	J.APARNA	J. Aparna
3	2142005622006	J.MANO HAR	J. Manohar
4	2142005622007	K. SATHISH KUMAR	K. Sathish Kumar
5	2142005622008	K.THARUN NAIK	K. Tharun Naik
6	2142005622009	K.SURESH BABU	K. Suresh Babu
7	2142005622011	M.RAJA SHEKAR	M. Raja Shekar
8	2142005622012	M.PAVAN KALYAN	M. Pavan Kalyan
9	2142005622014	M.MANASA	M. Manasa
10	2142005622016	N.BHAVANI PRASAD	N. Bhavani Prasad
11	2142005622017	O.YAMUNA	O. Yamuna
12	2142005622018	P. DEVENDRA	P. Devendra
13	2142005622019	P. CHANDANA	P. Chandana
14	2142005622020	P.ABUBAK SIDDIK	P. Abubakar Siddik
15	2142005622022	P. VEERA PRASAD	P. Veera Prasad
16	2142005622024	P.SAI VINAY	P. Saivina y
17	2142005622025	R.BALAJI NAIK	R. Balaji Naik
18	2142005622026	S.BHANU PRASAD	S. Bhanu Prasad
19	2142005622027	S.LAVANYA	S. Lavanya
20	2142005622029	S. JAYPAUL	S. Jay Paul
21	2142005622031	S.DURGA PRASAD	S. Durga Prasad
22	2142005622032	T. BALASUBRAMANYAM	T. Balasubramanyam
23	2142005622033	U.GIRISH	U. Girish
24	2142005622034	U. KIRAN BABU	U. Kiran Babu
25	2142005622036	Y. SURESH	Y. Suresh
26	2142005622037	Y. RAJU	Y. Raju
27	2142005622038	Y. BABU	Y. Babu



**STSN GOVT.DEGREE COLLEGE, KADIRI**

**DEPARTMENT OF SERICULTURE**

**MODEL QUESTION PAPER**

**20M**

**Write Any Two Questions**

**5x2=10**

1. Benefits & Uses Of Vermicompost
2. Vermicomposting Harvest And Processing

**Write Any Five Questions**

**2x5=10**

1. Definition, Meaning Of Vermicompost
2. Types Of Earthworms
3. Use Of Vermicompost
4. Vermicomposting Harvest And Processing
5. Vermiwash Collection
6. Processingbasic Characteristics Of Earthworm

## **STUDENT FEEDBACK**

### **STUDENT FEEDBACK**

Name of the activity: Waste Recycling into Vermicompost

Date: 16-01-2020

Name of the participant: Y. Babu

Class: 5

Phone No. 9493859300

1. How would you rate the quality of the presentations and demonstrations during the event?

- Excellent
- Very Good
- Good
- Satisfactory

2. What was your level of satisfaction about the activity?

- Excellent
- Very Good
- Good
- Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- Excellent
- Good
- Fair
- Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- Excellent
- Good
- Fair
- Poor

5. Please write your suggestions / observations for improvement of the programme

I am glad to participate in this course, learned lot of knowledge, things about Vermicompost and waste recycling management in eco-friendly manner.



**STSN GOVT.DEGREE COLLEGE, KADIRI**  
**DEPARTMENT OF SERICULTURE**

**CERTIFICATE COURSE COMPLETION**

*This is to certify that Mr/Miss/**B.MAHESH** has successfully completed 35 days Certificate course in the Department of **SERICULTURE** and has been awarded. day of **JANUARY-26** in the year **2021** He/she is conferred the following award*

*Authorized Signatory*

*Principal*

M. Sauthoshikumar

B. Suvitha

**PRINCIPAL**

STSN Govt. DEGREE COLLEGE

KADIRI - 515 591

Sri Sathya Sai (D.A.)

# ISSUE OF CERTIFICATE



# STUDENT PARTICIPATED PICS

## BUYING A WORM COMPOST



# STUDENTS LINING UP WITH DRIED GRASS AND LEAVES



*WATERING THE PIT TWICE A WEEK*



*WATERING THE PIT TWICE A WEEK*



*PREPARE A COW DUNG SLURRY & SPRINKLE*

*IT ON THE HEAP OF QUICK DECOMPOSITION*

