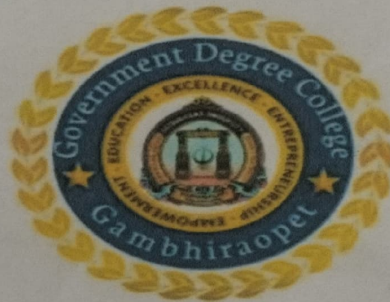
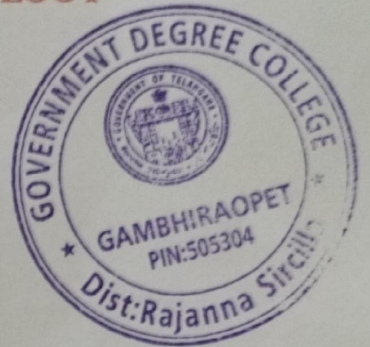


**CERTIFICATE COURSE ON
STUDENTS
VERMICULTURE AND VERMICOMPOSTING ZOOLOGY**

**ACADEMIC YEAR- 2021-2022
[FROM 25-10-2021 TO 02-12-2021]**

DEPARTMENT OF ZOOLOGY

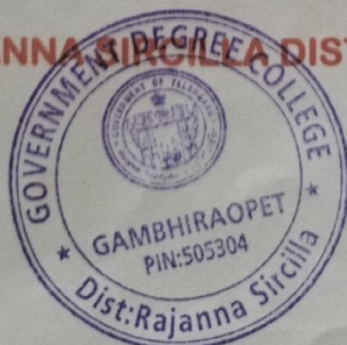


No. Of Participants: 50

No. Of Course Hours:30

GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET

RAJANNA SIRCILLA DIST. 505 304

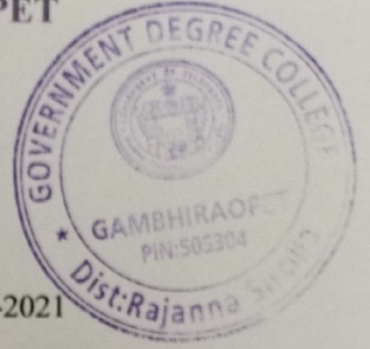


GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST

DEPARTMENT OF ZOOLOGY

PERMISSION LETTER

Date: 18-10-2021



To
The Principal,
Government Degree College,
Gambhiraopet,
Rajanna Sircilla Dist.-505304

Respected Sir,

Sub: - Department of Zoology - Seeking Permission to start Certificate
Course in Zoology in our college Request-Reg.

-o0o-

We the Department of Zoology would like to start Certificate Course in
Zoology in our college for the academic year 2021-2022 for the betterment of all
Zoology students.

Hence, we request you to permit us to start the Certificate Course on
“VERMICULTURE AND VERMICOMPOSTING ZOOLOGY STUDENTS” for the
above mentioned academic year.

Thanking you sir,

Yours faithfully

K.V.Bixamaiah

Department of Zoology

Bem2,

Dept Incharge/Course coordinator

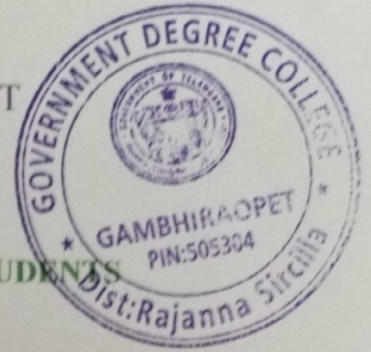
[Signature]
PRINCIPAL
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GAMBHIRAOPET-505304
RAJANNA SIRCILLA (DIST) T.S.
Principal

GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST

DEPARTMENT OF ZOOLOGY

Certificate Course on
VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS

Curriculum of the Certificate Course:



Total Hours: 30
(10 Hours)

Unit -I

- 1 .Introduction to vermiculture, definition, classification, History, economical importance. Their value in maintenance of soil structure.
- 2.Its role in bio transformation of the residue dues generated by human activity and production of organic fertilizers
- 3.choosing the right worm. Useful species of earthworms local species of earthworms .Exotic species of earthworms
- 4.Biology of peretimaposthuma.
 - a.Taxonomy Anatomy,physiology and reproduction.
 - b.Vital cycle of peretimaposthuma; alimentation, fecundity, annual reproducer potential.

Unit -II

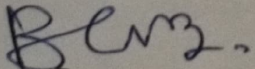
(10 Hours)

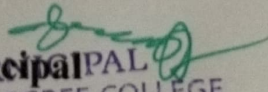
- 5.Limit factors (gases, diet, humidity, temperature, PH ,light and climatic factors)
6. Physio chemical parameters of vermin compost.
7. Different methods of Vermin composting: small scale and large scale Bed method, pit method small scale Earthworm farming for home gardens Earthworm compost for home gardens.
- 8.Convential commercial composting: Earthworm composting large scale.
- 9.Pest and diseases of earth worms. Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation.
- 10.Nutritional composition of vermicompost for plants, comparison with other fertilizer.

Unit -III

(10 Hours)

- 11.Earthworm Farming (Vermiculture),Extraction (harvest) ,vermin compost harvest and processing.
- 12.Vermiwash.
- 13.Small scale earthworm farming for home gardens.
- 14.Conventional commercial composting.
- 15.Earthworm Farming (Vermiculture),Extraction(harvest),vermicomposting harvest and processing.
- 16.Harvesting, packaging, transport and storage of vermicompost and separation.


Dept Incharge/Course coordinator


Principal
GOVT. DEGREE COLLEGE
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GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST
DEPARTMENT OF ZOOLOGY



CERTIFICATE COURSE ON VERMICULTURE AND VERMICOMPOSTING

Resource Person: Sri. K.V. BIXAMAIAH Lecturer in Zoology.

Aims and Objectives

1. To give Definition and meaning of Vermiculture
2. To explain the need of Vermiculture in the present days
3. To provide knowledge about vermiculture as synonym to fertilizers
4. To describe different types of worm forms.
5. To identify different types of organic waste required for worm farms.
6. To provide specific knowledge about the Construction of worm farms at home
7. To sensitize the benefits of worm farming to the society.
8. To create better understanding about the role of worm farming as an alternative.
9. To extend understanding about the potentiality of vermin compost.
10. To explain the role of vermiculture in maintaining fertility of soil.
11. To ignite Economic importance of vermiculture
12. To create wide understanding about the role of Vermiculture in protecting the environment.
13. To imbibe vermiculture as an alternative career.

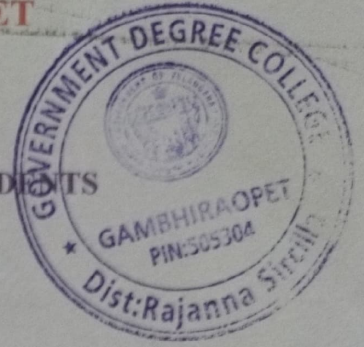
Bemz.
Dept Incharge/Course coordinator

Bemz.
Principal
GOVT. DEGREE COLLEGE
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**.GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST**

DEPARTMENT OF ZOOLOGY

Certificate Course on
VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS
ACADEMIC YEAR- 2021-2022



CIRCULAR

Date: 18-10-2021 .

All the students are here by informed that we, the Department of Zoology planning to Start "CERTIFICATE COURSE ON VERMICULTURE AND VERMICOMPOSTING ZOOLOGY STUDENTS" for a period of 30 hours for this Academic Year 2021-2022 The classes will be conducted during Zero hours that is from 4:30 P.M to 5:30 P.M (1hours) on all working days. The Detailed scheduled will be intimated soon. Interested candidates may enrol their names with Sri.K.V.Bixamaiah Lecturer in Zoology on or before 23-10-2021.

B. V. S.
Dept Incharge/Course coordinator

[Signature]
Principal
GOVT. DEGREE COLLEGE
GAMBHIRAOPET-505304
RAJANNA SIRCILLA (DIST)T.S.

**GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST
DEPARTMENT OF ZOOLOGY**

Certificate Course on
VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS
ACADEMIC YEAR- 2021-2022



Student Enrolment sheet:

Sl.No	Name of the student	Father name	College ID	Signature of the student
1	ABRAVENI LIKITHA	ANJANEYULU	210770864451001	A. Likitha
2	AJMEERA PALLAVI	RAMPAL	210770864451002	A. Pallavi
3	ANNAVENI KEERTHI PRIYA	RAJU	210770864451003	A. Keerthi Priya
4	AREPALLI RAKESH	LINGAM	210770864451004	A. Rakesh
5	ARUTLA NAVYA	VENKESH	210770864451005	A. Navya
6	AZMEERA SAIJAHNAVI	VITTAL	210770864451006	A. Sai Jahnavi
7	BANOTHU INDU	MANDHANLAL	210770864451007	B. Indu
8	BITLA ARCHANA	SRINIVAS	210770864451008	B. Archana
9	BITLA HARIKA	MALLESH	210770864451009	B. Harika
10	CHEPYALA KAVYA	DURGAIAH	210770864451010	Ch. Kavya
11	CHEVULA HEMALATHA	RAJU	210770864451011	Ch. Hemalatha
12	CHIPPALAPALLY SRAVANTHI	RAJI REDDY	210770864451012	Ch. Sravanthi
13	DUBBAKA DEEPIKA	DEVAIAH	210770864451013	D. Deepika
14	GANADHI SAHITHI	BABAIAH	210770864451014	G. Sahithi
15	GERIGANTI SUNITHA	SWAMY	210770864451015	G. Sunitha
16	GOONI VANI	DEVAIAH	210770864451016	G. Vani
17	GUGULOTH SHIRISHA	RAJYA NAYAK	210770864451017	G. Shirisha
18	GUNDELLI ANUSHA	KISHAN	210770864451018	G. Anusha
19	JAKKU POOJITHA	RAJU	210770864451019	J. Poojitha
20	KANIKARAM MOUNIKA	POCHIAH	210770864451020	K. Mounika
21	KAUSAR SULTHANA	AHMED HUSSAIN	210770864451021	Kausar Sulthana
22	KISTAMGARI BHAVANI	KOMURIAH	210770864451022	K. Bhavani
23	KONA BHANU PRASAD	KISHAN	210770864451023	K. Bhanu
24	KURRA SANDHYA	NARSAIAH	210770864451024	K. Sandhya
25	LAKAVATH SHIREESHA	RAJU	210770864451025	L. Shireesha
26	MANUKA PRATHYUSHA	MAHESH	210770864451026	M. Prathyusha
27	PITLA VARSHA	NARSIMLU	210770864451036	P. Varsha
28	PODENDLA SAMEERA	BALRAJU	210770864451037	P. Sameera

29	RAPOLU MOUNIKA	MALLESH	210770864451038	R. Mounika
30	SADIMELA VANDANA	MALLESHAM	210770864451039	S. Vandana
31	DOLI SWETHA	RAJANARU	20077086445006	D. SWETHA
32	ERRAGOLLA PRAVALIKA	NARSIMLU	20077086445008	E. Pravalika
33	GERIGANTI PAVANI	SRINIVAS	20077086445012	Gr. Pavani
34	GUDEPU BHARGAVI	NARSIMLU	20077086445013	Gr. Bhargavi
35	GUNDELLI NEERAJA	LINGAM	20077086445015	Gr. Neeraja
36	JANGAM ANUSHA	SWAMY	20077086445016	J. Anusha
37	KODE VIDYA	SRINIVAS	20077086445018	K. Vidya
38	MANDLAP PAVANI	LAXMAN	20077086445020	M. Pavani
39	MANGALI ARUNA	POCHIAIAH	20077086445021	M. Aruna
40	MANGALI NAVEENA	YELLAIAH	20077086445022	M. NAVEENA
41	METHUKU PRANAVI	NARSIMLU	20077086445023	M. pranavi
42	MUTYALA NIKITHA	DEVENDER	20077086445026	M. Nikitha
43	PAKA ANITHA	RAJU	20077086445029	P. Anitha
44	PANDUGA RAJKUMAR	SATHYANARAYANA	20077086445031	P. Rajkumar
45	VANGAPALLI KAVYA	BIKSHAPATHI	20077086445040	V. Kavaya
46	VENNU SRIVANI	NARSINGARAO	20077086445041	V. Srivani
47	THALARI NIKHITHA	PURUSHOTHAM	20077084445045	T. Nikhitha
48	GUNDAVENI KRISHNAVENI	THIRUPATHI	20077089445007	Gr. Krishnaveni
49	LONKA MANJUSHA	NAGABHUSHANAM	20077089445010	L. Manjusha
50	VANGA RENUKA	DEVAIAH	20077089445019	V. Renuka

B. S. S.
Dept Incharge/Course coordinator

S. S. S.
PRINCIPAL
GOVT. DEGREE COLLEGE
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GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
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DEPARTMENT OF ZOOLOGY

Certificate Course on

VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS

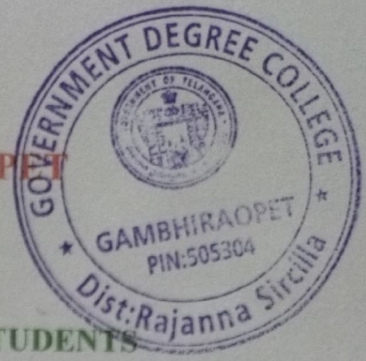
ACADEMIC YEAR- 2021-2022

Students attendance sheet:

Sl. No	Student name	October					November															Dec		Sign															
		25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	19	20	21	22	23	24	25	26	27	28	30	1	2
1	ABRAVENI LIKITHA	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	A. Likitha
2	AJMEERA PALLAVI	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	A. Pallavi
3	ANNAVENI KEERTHI PRIYA	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	A-keerthipriya	
4	AREPALLI RAKESH	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	A. Rakesh	
5	ARUTLA NAVYA	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	A. Navya	
6	AZMEERA SAJAHNAVI	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	A. Sai Jahnavi	
7	BANOTHU INDU	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	B. Indu	
8	BITLA ARCHANA	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	B. Archana	
9	BITLA 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	P	P	B. Harika	
10	CHEPYALA KAVYA	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	Ch. Kavya	
11	CHEVULA HEMALATHA	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	Ch. Hemalatha	
12	CHIPPALAPALLY SRAVANTHI	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	Ch. sravanthi	
13	DUBBAKA DEEPIKA	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	D. Deepika	
14	GANADHI SAHITHI	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	G. Sahithi	
15	GERIGANTI SUNITHA	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	G. Sunitha	
16	GOONI VANI	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	G. Vani	
17	GUGULOTH 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	G. Shirisha	
18	GUNDELLI ANUSHA	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	G. Anusha	
19	JAKKU POOJITHA	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	J. Poojitha	
20	KANIKARAM MOUNIKA	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	K. Mounika	
21	KAUSAR SULTHANA	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	Kausar sultana	
22	KISTAMGARI BHAVANI	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	K. Bhavani	
23	KONA BHANU PRASAD	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	K. Bhanu	
24	KURRA SANDHYA	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	K. Sandhya	
25	LAKAVATH SHIREESHA	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	L. Shireesha	
26	MANUKA PRATHYUSHA	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. Prathyusha	
27	PITLA VARSHA	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. Varsha	

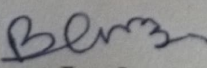
GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST
DEPARTMENT OF ZOOLOGY

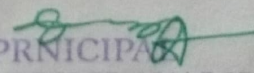
Certificate Course on
VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS
ACADEMIC YEAR- 2021-2022



Learning outcomes

1. Students are able to understand and capable of finding out the different types of worms.
2. Derived knowledge to distinguish different categories and types of worm farms.
3. Understood the importation with regard to organic waste coming from worm farms.
4. Got specific knowledge about the construction of worms farms at home
5. Enlightened upon benefits of worms farming.
6. Able to grasp that worm farming in modern methods for economical growth.
Understood worming as on alternative to fertilizers.
7. Derived benefits of knowing that Vermiculture is good for soil
Understood Vermiculture as income generation
8. Understood worming as on alternative to fertilizers.
9. Derived benefits of knowing that Vermiculture is good for soil
10. Understood Vermiculture as income generation


Dept Incharge/Course coordinator


Principal
GOVT. DEGREE COLLEGE
GAMBHIRAOPET-505304
RAJANNA SIRCILLA (DIST) T.S.

GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST

DEPARTMENT OF ZOOLOGY

Certificate Course on
VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS
ACADEMIC YEAR- 2021-2022



Certificate Course Summery

Name of the Course :vermiculture and vermicomposting

Name of the Course Coordinator :K.V.Bixamaiah

No.of Students attended Course :48

No.of Hours of the Course taken :30.Hours

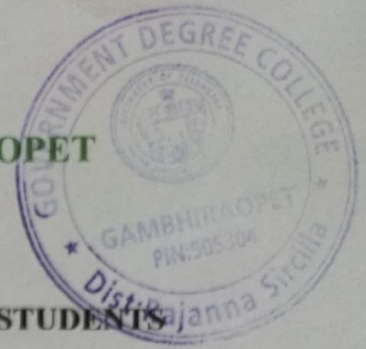
Dates of the Course (from--to) :25-10-2021 to 02-12-2021

Name of the Department Conducted : Zoology

Dept Incharge/Course coordinator

Principal
GOVT. DEGREE COLLEGE
GAMBHIRAOPET-505304
RAJANNA SIRCILLA (DIST).S.

GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET
RAJANNA SIRCILLA DIST
DEPARTMENT OF ZOOLOGY



Certificate Course on
VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS
ACADEMIC YEAR- 2021-22

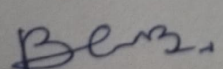
Name of the student..... H.T.No.....

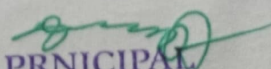
Group..... Year.....

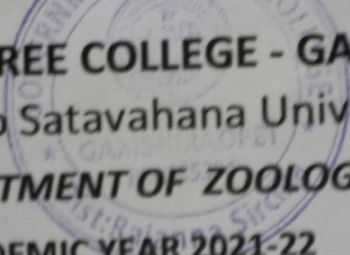
Multiple choice Questions.

10*2=20

1. which of the following is not a method of worm cast harvesting or manufacturing? []
a.Homogenization b.Active feeding
c.Drying under adequate light d.Separation of cocoons.
2. Earthworms subsidize to the burial of wastes? []
a.True b.False
3. Which of the following cannot be established properly in the field? []
a.Eisenia foetida b. Perionxy c.Epifilis d.Aneciques
4. Which of the following species is most stable in Indian conditions? []
a.Perionyx b .Epifilis c.Endogens d.Aneciques
- 5 What is the major advantage of three-tire vermi-culture technology? []
a. It can be applied to both solid and liquid wastes
b. It cannot be applied to both solid and liquid wastes
c. It involves chemical treatment
d. It can degrade organic wastes
6. Which of the following species of earthworms is not suitable for vermicomposting?[]
a. Epifilis b.Anecique c.Endogens d. Plasmodium
7. which among the following is not a major reason for choosing earthworms for vermicomposting? []
a. low incubation time b. Digestion rate c. Adaptability d. Low growth rate
8. which of the following is not a major objective of vermicomposting []
a.To elevate the vaule of original material b.To acceleratethe rate of degradation
c.To obtain toxic productd. d. To obatain products freeof any pollutants.
9. Which of the following methods uses earthworms during composting? []
a.vermicomposting b.vertical composting
c.windrow composting d.burning
10. . Which of the following species has a shorter body size? []
a. Epifils b.Endogens c.Aneciques d.Eudrilus


Dept Incharge/Course coordinator


Principal
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GAMBHIRAOPET-505304
RAJANNA SIRCILLA (DIST)T.S.

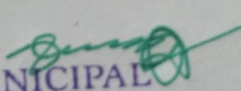

GOVERNMENT DEGREE COLLEGE - GAMBHIRAOPET
 (Affiliated to Satavahana University)
DEPARTMENT OF ZOOLOGY
ACADEMIC YEAR 2021-22

Feed back analysis of Certificate Course in
VERMI CULTURE AND VERMI COMPOSTING ZOOLOGY

Name of the lecturer: K.V.BIXAMAIAH

Sl. No.	Questionnaire	Excellent	Very Good	Good	Average	Poor	Total
1	Syllabus	9	1	.			10
2	Coverage of Syllabus	9	1				10
3	Explanation of the topics	8	1	1			10
4	Teaching Methods	8	1	1			10
5	Interaction	8	2				10
6	Doubts Clarification	8	2				10
7	Teacher Presentation	9	1				10
8	Generating interest	9	1				10
9	Time Maintenance	10					10
10	Overall opinion	10					10

Excellent

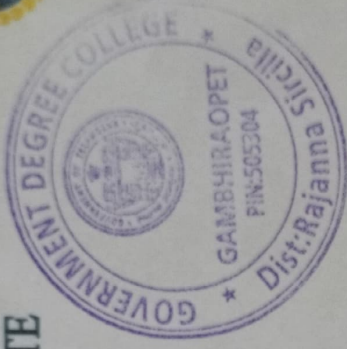

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GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET



Dist: Rajanna Sircilla- 505 304, TELANGANA STATE



DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr/Ms. **B.ANOJ.HU**..... **I.MDU**.....

BA/B.Sc/ B.Com. 1st year. B.Z.C..... Year bearing the roll number.... **210770864451007**. has

successfully completed the certificate course in **Nexmi.culture & Vermicomposting**....organised

by Department of zoology.

Head of the Department

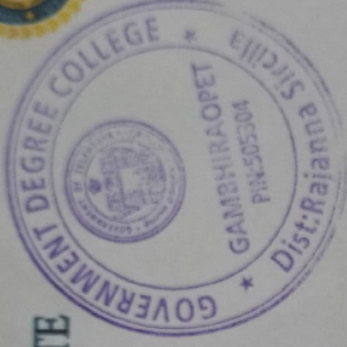
Coordinator

Principal
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GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET

Dist: Rajanna Sircilla- 505 304, TELANGANA STATE




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Head of the Department

Coordinator


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