

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

**ACADEMIC YEAR- 2019-20  
[FROM 11-09 -2019 TO 06 -11 -2019]**

**DEPARTMENT OF ZOOLOGY**

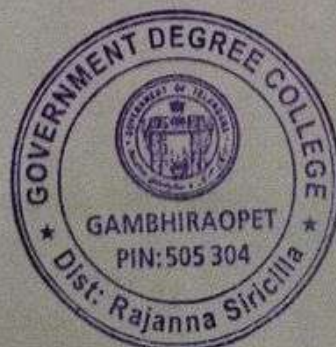


**No. Of Participants: 30**

**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: 03-09-2019

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.

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*Permitted*  
*[Signature]*  
We the Department of Zoology would like to start Certificate Course in Zoology in our college for the academic year 2019-20 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

*B. [Signature]*  
Dept of Zoology  
Dept Incharge/Course coordinator  
GDC, GAMBHIRAOPET  
Dist: Rajanna Sircilla, Pin-505304(T.S.)

*[Signature]*  
Principal  
GDC, Gambhiraopet  
Dist: Rajanna Sircilla



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 reproducuer 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.

*B. Anz*  
**Dept Incharge/Course coordinator**

Dept. of Zoology  
GDC, GAMBHIRAOPET  
Dist: Rajanna Sircilla, Pin-505304(T.S.)

*[Signature]*  
**Principal**

PRINCIPAL  
GDC, Gambhiraopet  
Dist: Rajanna Sircilla-505304



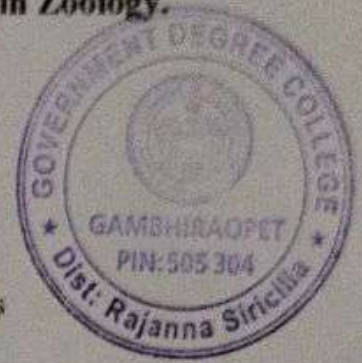
GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET  
RAJANNA SIRCILLA DIST  
**DEPARTMENT OF ZOOLOGY**

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.



  
Dept Incharge/Course Coordinator  
Dent of Zoology  
GDC, GAMBHIRAOPET  
Dist: Rajanna Sircilla, Pin-505304 (T.S.)

  
Principal  
GDC, Gambhiraopet  
Dist: Rajanna Sircilla





**GOVERNMENT DEGREE COLLEGE, GAMBHIRAPET**  
**RAJANNA SIRCIILLA DIST**  
**DEPARTMENT OF ZOOLOGY**  
Certificate Course on  
**VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS**  
**ACADEMIC YEAR- 2019-20**

**CIRCULAR**

Date: 04-09-2019.

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 2019-20. 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.Bixanaiiah Lecturer in Zoology on or before 07-09-2019

*BVM*  
**Dept In-charge Zoology**  
**Coordinator**  
GDC, GAMBHIRAPET  
Dist: Rajanna Sircilla, Pin-505304(T.S.)

*[Signature]*  
**Principal P.A.L.**  
GDC, Gambhirapet  
Dist: Rajanna Sircilla-50-



**GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET  
RAJANNA SIRCILLA DIST**

**DEPARTMENT OF ZOOLOGY**

Certificate Course on  
**VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS**  
**ACADEMIC YEAR- 2019-20**

**Student Enrolment sheet:**

Sl.No	Name of the student	Father name	College ID	Signature of the student
1	BHUKYA RAJITHA	MONYA	19077086445001	B. Rajitha
2	BOMMENA MOUNIKA	KANUKAIAH	19077086445002	B. Mounika
3	DEVA RAMYA	NAGAIAH	19077086445006	D. Ramya
4	GADHAM MEENA	BALNARSU	19077086445007	G. Meena
5	GALAIAHGARI REKHA	ADIVAIAH	19077086445008	Gr. Rekha
6	JILLELLA PAVANI	RAMESH	19077086445009	J. Pavani
7	MOLUGURI PRIYANKA	RAJAMALLU	19077086445013	m. Priyanka
8	PULI NANDINI	VITTAL	19077086445014	P. Nandini
9	S.SANDHYA RANI	NARSIMULU	19077086445015	S. Sandhyarani
10	S.KALYANI	DEVAIAH	19077086445017	S. Kalyani
11	S,SUDHARANI	SHANKER	19077086445019	s. sudharani
12	YARAPU MOUNIKA	GANGADHAR	19077086445021.	y. mounika
13	CH.SRAVANI	VENKATRAJU	18077086445003	CH. SRAVANI
14	M.MOUNIKA	RAMESH	18077086445006	M. mounika
15	P.SOUMYA	ANJIAH	18077086445007	P. Soumya
16	B.PRIYA	DAVAIAH	18077100445003	B. Priya
17	G.KALPANA	DEVENDHAR	18077100445007	G. kalpana
18	K.ISHWARYA	DEVAIAH	18077100445009	K. Ishwarya
19	S.RENUKA	LAXMAN	18077100445014	S. RENUKA
20	U.NIKHITA	NAMPELLY	18077100445015	U. Nikhita
21	B.KALYANI	BALNURSU	180770894445007	B. Kalyani
22	G.KALPANA	NAMPELLY	180770894445023	G. kalpana
23	K.RADHA	DURGAIAH	180770894445033	k. Radha
24	A.JAYA	RAJANARSU	17077086445501	A. Jaya
25	B.SRIKANTH	NARSAIAH	17077086445502	B. Srikanth
26	CH.REKHA	VENKATRAJU	17077086445504	CH. Rekha
27	E.MAMATHA	NARSIMLU	17077086445505	E. Mamatha
28	E.MANASA	DEVAIAH	17077086445506	E. Manasa
29	G.MADHU	YELLAM	17077086445507	G. Madhu
30	K.SWAPNA	AMBARISING	17077086445509	K. Swapna

*B. V. S.*  
Dept Incharge/Course coordinator

GDC, GAMBHIRAOPET  
Dist: Rajanna Sircilla, Pin-505304 (T.S.)

*[Signature]*  
Principal  
GDC, Gambhiraopet  
Pin-505304



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

Certificate Course on  
**VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS**  
ACADEMIC YEAR- 2019-20



**Inauguration photos**

ఉత్సాహం కెటుండా ఎవరు గొప్ప కార్యలు సాధించారు



*Benz*  
Dept Incharge/Course coordinator  
GDC, GAMBHIRAOPET  
Sircilla, Pin-505304 (T.S.)

*[Signature]*  
Principal  
GDC, Gambhiraopet  
Dist: Rajanna Sircilla-505304



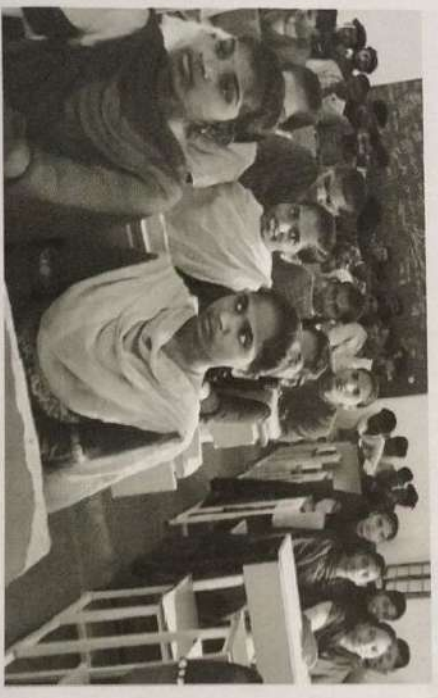




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**RAJANNA SIRCILLA DIST**  
**DEPARTMENT OF ZOOLOGY**  
 Certificate Course on  
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 ACADEMIC YEAR- 2019-20

Valedictory function photos

ఉత్తీసం తీవరం నీను నీర్నూకాద్యుల సాధనం చేయి



*BVR*  
 Dept Incharge/Course coordinator  
 Deputy ZOOLOGIST  
 G.D.C.GAMBHIRAOPET  
 Dist: Rajanna Sircilla, Pin-505304

**PRINCIPAL**  
 G.D.C.Gambhirraopet  
 Dist-Rajanna Sircilla-505304

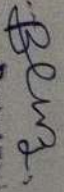


  
**GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET**  
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**ACADEMIC YEAR- 2019-20**

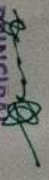
**Learning outcomes**

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.
7. Understood worming as an alternative to fertilizers.
8. Derived benefits of knowing that Vermiculture is good for soil

Understood Vermiculture as income generation

  
**Dept. Incharge / Course coordinator**  
GDC, GAMBHIRAOPET



  
**Principal**  
GDC, Gambhiraopet  
Dist: Rajanna Sirchila, PIN: 505304





GOVERNMENT DEGREE COLLEGE, GAMBHIRAOPET  
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**DEPARTMENT OF ZOOLOGY**  
 Certificate Course on  
 VERMICULTURE AND VERMICOMPOSTING FOR ZOOLOGY STUDENTS  
 ACADEMIC YEAR- 2019-20

Certificate Course Summary

Name of the Course : vermiculture and vermicomposting

Name of the Course Coordinator : K. V. Bixamaiah

No. of Students attended Course : 27

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

Dates of the Course (from--to) : 11-09-19 to 06-11-19

Name of the Department Conducted : Zoology



*BLM*  
 Department Zoology  
 GDC, GAMBHIRAOPET  
 Dist: Rajanna Sirguda, 769025(Sirguda)

*P. Prakash*  
 Principal  
 GDC, Gambhirapet  
 Dist: Rajanna Sirguda





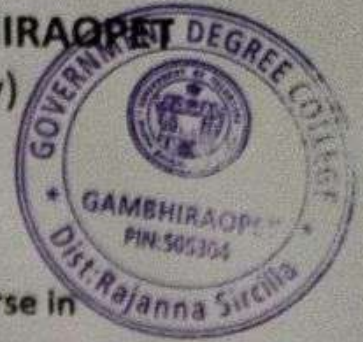


**GOVERNMENT DEGREE COLLEGE - GAMBHIRAOPET**  
(Affiliated to Satavahana University)

**DEPARTMENT OF ZOOLOGY**

Academic Year - 2019-2020

Students Feed Back Analysis on Certificate Course in  
**VERMICULTURE AND VERMICOMPOSTING**



Name of the Lecturer: K.V.BIXAMAIAH		Subject: ZOOLOGY					
Sl. No.	Questionnaire	Excellent	Very Good	Good	Average	Poor	Total
1	Syllabus	9	1				10
2	Coverage of Syllabus	6	4				10
3	Explanation of the topics	9	1				10
4	Teaching Mehods	5	5				10
5	Interaction	8	2				10
6	Doubts Clarification	9	1				10
7	Teacher Presentation	6	4				10
8	Generating interest	7	3				10
9	Time Maintenance	7	3				10
10	Overall opinion	7	3				10
Remarks of the Principal on Certificate Course		<i>Excellent</i>					

*[Signature]*  
**PRNICIPAL**  
GOVT. DEGREE COLLEGE  
GAMBHIRAOPET-505304  
RAJANNA SIRICILLA (DIST)T.S.





# GOVERNMENT DEGREE COLLEGE



GAMBHIRAOPET, Dist: RajannaSircilla -T.S.

## CERTIFICATE

*This is to Certify that Mr/Miss.....*

*B.A./B.Sc./B.Com.....Year bearing the Roll No.....*

*has successfully Completed the Certificate Course in.....*

*Organised by Department of.....*



Head of the Department

Co-ordinator

Principal





# GOVERNMENT DEGREE COLLEGE



GAMBHIRAOPET, Dist: RajannaSircilla -T.S.

## CERTIFICATE

This is to Certify that Mr/Miss.....J. PAVANI.....

B.A./B.Sc./B.Com.....1<sup>st</sup>.....Year bearing the Roll No. 19077086445009.....

has successfully Completed the Certificate Course in Vermiculture and Vermicomposting.

Organised by Department of.....Zoology.....



Benz

Benz

Head of the Department

Co-ordinator

Principal

GOVT. DEGREE COLLEGE  
GAMBHIRAOPET-504  
RAJANNA SIRICILLA (DIST) T.S.