



Government Degree College

Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013 Email.ID :Paderu.jkc@gmail.com.



DEPARTMENT OF ZOOLOGY

ADD ON/CERTIFICATE COURSE

ACADEMIC YEAR:2022-2023

Name of the Certificate Course offered: **ZOO22234-VERMICULTURE**

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DEPARTMENT OF ZOOLOGY

Date : 22.06.2022

Proposal for Certificate Course in Vermiculture

Academic year 2022 -2023

From

To

The Course Coordinator

The Principal

Department of Zoology

Govt.Degree College

Govt. Degree College, Paderu.

Paderu, Visakhapatnam Dist.

Respected Sir,

Sub: Proposal for introducing Certificate Course in **Vermiculture** -Department of Zoology Request -Regarding.

We The Department of Zoology writing to propose the implementation of a Certificate Course in **Vermiculture** for our B.Sc/B.Com/B.A Students at our esteemed Institution from 01.07.2022 to 31.08.2022.

So kindly grant permission for The Department of Zoology to conduct the Certificate Course, Additionally, please allow the faculty to discuss the Syllabus and Course outcomes during the staff council meeting.

Thanking You sir for considering this Proposal.

Name of the Certificate Course : Vermiculture

Course Coordinator

: Mr.P.Ramesh Kumar

Yours faithfully


Department of Zoology

Mr.P.Ramesh Kumar

Course Coordinator



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Date :27.06.2022

DEPARTMENT OF ZOOLOGY CERTIFICATE COURSE ON VERMICULTURE COURSE SYLLABUS

Name of the Course : VERMICULTURE Course Code : ZOO22234-VERMICULTURE

Course Coordinator : Mr.P.Ramesh Kumar Academic Year : 2022-2023

Total work load :40 Hours

Unit I : SILK INTRODUCTION TO VERMICULTURE

- 1.History, scope and economic importance of vermiculture.
- 2.Diversity and taxonomy of earth worms.
- 3.Morphology and life history of earth worms.

Unit II : SELECTION OF SPECIES AND DIFFERENT CULTURE METHODS

1. Common species for Vermiculture; Environmental requirements; culture methods.
2. Importance of Vermiculture.
3. Earth worm Diseases.

Unit III : VERMICOMPOSTING

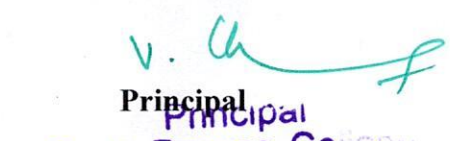
- 1.Materials required for Vermicomposting.
- 2.Types of vermicomposting
 - a) Small Scale Vermicomposting
 - b) Large Scale Vermicomposting
3. Methods of Vermicomposting
 - a).Bed Method
 - b).Pit Method.
4. Phases and Steps of Vermicomposting.

Unit IV : NUTRIENTS AND ADVANTAGES OF VERMICOMPOST

1. Harvesting
2. Nutrient Content of Vermicompost
3. Advantages of Vermicompost
4. Preparation and Applications of vermiwash.
5. Prospects of vermi-culture as self employment venture.


Course Coordinator


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DEPARTMENT OF ZOOLOGY

Date:28.06.2022

MINUTES OF MEETING

The following are the minutes of the meeting is held on 28.06.2022 for starting a certificate course in 'Vermiculture' for B.Sc, B.COM ,B.A students for the academic year 2022-2023.

The following minutes have been discussed and resolved unanimously.

It is proposed to star a certificate course in 'Vermiculture' for the students of B.Sc, B.COM, B.A during the academic year 2022-2023.

1. It is proposed to endorse Sri P.Ramesh Kumar as course coordinator.
2. It is suggested to the coordinator to enrol maximum number of students for the certificate course.
3. It is also discussed to use Virtual class room and other equipment to teaching an easy way.
4. It is also discussed how we can motivate the students towards the course.

Members of the committee during minutes

- 1.
- 2.
- 3.
- 4.
- 5.

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Date : 27.06.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON VERMICULTURE (2022-23)

Zoology is aimed at priming the students for their future careers and study in the fields of biological sciences. The students are prepared for pursuing their post-graduate studies. They would also be able to take up entrepreneurship related to biological sciences. Additionally, the students could chose to join public or private sectors like fishery, forestry, wildlife conservation, agricultural research, health services, environmental management and restoration.

The students to become reasonably self-sufficient thereby increase their employability. Acquisition of these skills by students will open better opportunities for them in the fields of higher studies and research in addition to increasing their employability.

Aristotle has said, "Earthworms are intestines of the earth." The importance of earthworms in organic waste management and recycling cannot be under-emphasized. Vermiculture and vermicomposting are the best and environment friendly methods for producing nutrient rich manure for home gardening and agriculture. The course on vermicomposting aims at imparting sufficient understanding and skill to the student for an economically viable activity. Vermiculture is environment friendly since earthworms feed on anything that is biodegradable, vermicomposting can aid in garbage disposal problems. No imported inputs are required, worms are available locally and organic matter for feeding are abundant locally as market wastes, grasses, used papers and farm waste.

AIMS AND OBJECTIVES

- 1.The learners should be able to do Vermiculture in a systematic way.
- 2.The students can able to understand the life history of earth worms.
- 3.They were Able to get hands on experience in all related activities till vermicomposting.
- 4They should know the uses of vermicomposting.
- 5This will increase the awareness and skill availability in the need of the day viz.organic farming.
- 6.To understand the effective convert organic waste.
- 7.Ability to understand the soil enrichment.
- 8.to understand the promoting of sustainable agricultural practices and waste reduction


Course Coordinator


IQAC Coordinator
Govt. Degree College


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Date :27.06.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON VERMICULTURE

LEARNING OUTCOMES

- 1). Understanding the role of worm farming in Modern Farming.
- 2). Understanding the potential of vermicompost as an alternative to chemical fertilizers.
- 3). Farmer Understanding investment and saving of income by using vermicompost.
- 4). Role of vermiculture in maintaining the health of soil and humans.
- 5). Economic importance of vermiculture
- 6). Role of Vermiculture in protecting the environment and managing the waste.

REFERENCE BOOKS

- 1.R.K. Bhatnagar & R.K. Palta- Earthworm Vermiculture and Vermicomposting, Kalyani Publishers, No. 1, Mahalakshmi Street, T. Nagar, Chennai -600 017.
- 2.P.K. Gupta - Vermi Composting for Sustainable Agriculture. AGROBIOS (India), Agro House, Behind Nasrani Cinema, Chopasani Road, Jodhpur – 342 002.
- 3.Sathe, T. V.-Vermiculture and Organic Farming. Daya Publishing House
- 4.Bhatt J.V. & S.R. Khambata (1959)- Role of Earthworms in Agriculture. Indian Council of Agricultural Research, New Delhi.
5. Kevin, A and K.E.Lee (1989)- Earthworm for Gardeners and Fisherman" (CSIRO, Australia, Division of Soils)
- 6.Rahudakar V.B. (2004)-Gandulkhatashivay Naisargeek Paryay, Atul Book Agency, Pune.
- 7.Satchel, J.E. (1983)- Earthworm Ecology Chapman Hall, London.
- 8.Wallwork, J.A. (1983)-Earthworm Biology. Edward Arnold (Publishers) Ltd, London.

Course Coordinator

IQAC Coordinator

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Date : 01.07.2022

DEPARTMENT OF ZOOLOGY

RESOURCE PERSON DETAILS

Title of the Programme	VERMICULTURE
Course Code	ZOO22234-VERMICULTURE
Duration and Timing of the Programme	3 MONTHS
Name of the Resource Person	Mr.P.RAMESH KUMAR
Photo of the Resource person	 
Email address	rameshpittala1319@gmail.com
Contact number	9966562790
Designation	LECTURER IN ZOOLOGY
Educational Qualifications	M.Sc.,B.Ed.,APSET.,
Experience	10 YEARS

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DEPARTMENT OF ZOOLOGY

CIRCULAR

Date: 24.06.2022

Sub: Introduction of Certificate Course in Vermiculture.

Dear Students,

Department of Zoology is pleased to announce the implementation of a new Certificate Course on **Vermiculture** for the Academic year 2022-2023 to B.Sc /B.Com/B.A students.

The Certificate Course is a short term Certificate course on Sericulture, aimed at equipping individuals with valuable skills and knowledge in the field of Silk production. The Certificate Course which is designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

We encourage all interested individuals to register their names with the Course Coordinator and to take advantage of this learning opportunity.

Thanking you for your attention and cooperation.

Name of the Certificate Course : Sericulture

Course Coordinator : Mr.P.Ramesh Kumar

Eligibility of the course : 10+2

Fees structure : Unpaid course

Intake capacity : Total numbers of seats 60

Duration of the course : 48 Days / 1 Hour Per day.

Commencement of Date and time: 01.07.2022 (9.00 am to 5.00 pm)

Course Coordinator


IQAC Coordinator


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Date: 01.07.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON VERMICULTURE

COURSE DELIVERY

Name of the Course: Vermiculture

Course Code: ZOO22234-Vermiculture

Course Coordinator: Mr.P.Ramesh Kumar Academic Year: 2022-2023

Total work load: 48 Days / 1 Hour per day

SL.NO	TOPICS TO BE COVERED	HOURS	DATE OF DELIVERY
1	1.1. History, scope and economic importance of Vermiculture 1.2.2. Diversity and taxonomy of earth worms.	06 (4+2)	01.07.2022
2	1.3. Morphology and life history of earth worms. 1.4. Common species for Vermiculture; Environmental Requirements; culture methods.	06 (4+2)	11.07.2022
3	2.1. Importance of Vermiculture & Earth worm Diseases 2.2. Materials required for Vermicomposting. & Types of Vermicomposting	06 (4+2)	18.07.2022
4	3.1. Methods of Vermicomposting 3.2. Phases and Steps of Vermicomposting	06 (4+2)	25.07.2022
5	4.1. Harvesting & Nutrient Content of Vermicompost	06 (4+2)	08.08.2022
6	4.2. Advantages of Vermicompost & Preparation and Applications of Vermiwash.	06 (4+2)	15.08.2022
7	4.3. Role of Vermiculture in protecting the environment and managing the waste.	06 (4+2)	22.08.2022
	4.4. Economics 4.5. Prospects of vermi-culture as self employment venture	06 (4+2)	29.08.2022

Course Coordinator

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Date : 30.08.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE (II YEAR-III SEMESTER)

TEST ANALYSIS REPORT

Name of the Course : Vermiculture

Course Code : ZOO22234-Vermiculture

Course Coordinator : Mr.P.Ramesh Kumar Academic Year : 2022-2023

Total work load : 40 Hours

I hereby affirm that the entire course content in the certificate course "Vermiculture" listed in the certificate course syllabus have been performed by the students as the part of the prescribed co-curricular activities through Add on Course by NAAC and NBA.

I confirmed that the certificate course title as "Vermiculture" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

I confirmed that all the students for this certificate course were actively attended and performed well through out the duration and eligible students received the participation certificates.


Course Coordinator


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Date : 30.08.2022

DEPARTMENT OF ZOOLOGY CERTIFICATE COURSE (II YEAR-III SEMESTER) TEST ANALYSIS REPORT

Name of the Course : Vermiculture

Course Code : ZOO22234-Vermiculture

Course Coordinator : Mr.P.Ramesh Kumar

Academic Year : 2022-2023

Total work load : 40 Hours

I hereby affirm that the entire course content in the certificate course "Vermiculture" listed in the certificate course syllabus have been performed by the students as the part of the prescribed co-curricular activities through Add on Course by NAAC and NBA.

I confirmed that the certificate course title as "Vermiculture" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

I confirmed that all the students for this certificate course were actively attended and performed well through out the duration and eligible students received the participation certificates.


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Date : 30.08.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON VERMICULTURE

CERTIFICATE PROGRAM ASSESSMENT TEST

Name of the Course : VERMICULTURE Course Code : ZOO22234-VERMICULTURECourse

Coordinator : Mr.P.Ramesh Kumar Academic Year : 2022-2023

Total work load : 40 Hours System of Assessment : Internal

Total marks : 50 Duration : 1 Hour 30 Minutes

I. Very Short answer type questions 10X1 =10 M

1. Vermiculture
2. Vermicompost
3. Vermicasts
4. Clitellum
5. Cocoons
6. Hermoprodite
7. Anecics
8. Cellulase
9. Peregrine
10. Vermiwaist

II. Long answer type**4X5 = 20 M**

11. Describe the life history of Earth worm ? or

Explain the morphology of earth worm ?

12. Details the classification of earth worms ? or

Describe the anatomy of earth worm ?

13. Describe the vermicompost pit ?

Explain the methods of harvesting of earth worms ?

14. Denote the importance of verms ? or

Describe the Diseases of earth worms ?

III. One word answers**20X1 = 20 M****A. Fill in the blanks****5X1 = 5 M**

15. The first segment of earth worm is known as -----.

16. ----- is the part of earth worm where fertilization occurs.

17. Sperms are temporarily stored in -----.

18. ----- type of fertilization occurs in earth worm.

19. Testes are present in ----- segment of earth worm.

B. Matching**5X1 = 5 M**

20. South Indian earth worm () a. *Lumbricus terrestris*

21. Indian earth worm () b. *Peritima posthuma*

22. Epigeic () c. *Eisenia foetida*

23. Endogeic () d. *Allolobofers chlorotica*

24. Anecic () e. *Dravida grandis*

C.Choose the following

5X1 = 5 M

- 25.Plow worm of nature ()
a.Bombyx mori b.Apis indica c.Lassifer lac d.Earth worm
- 26.Earth worm belonging to the order ()
a.Hymenoptera b. Haplotaxica c.Orthoptera d.Lepidoptera
- 27.Europian earth worm ()
a.Lumbricis b.Megascolex c.Dravidia grandis d.Pheritima
- 28.Tiger worm ()
a. Dendrobaena b.Eudrillus c.Eisenia d.Phrionyx
- 29.Temperature of Vermi pit ()
A. 0° - 4° C b. 5° - 10° C c. 18° - 35° C d. 35° - 40° C

D.True or False

5X1 = 5 M

- 30 .The larvae of earth worm is trochophore.
- 31.Earth worm is belonging to the family polychaeta.
- 32.Optimum PH is require for distribution of worms.
- 33.High N₂ content not effect the Worm growth.
- 34.The first layer contain rocks in vermi bed.


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Date : 30.08.2022

DEPARTMENT OF ZOOLOGY

ASSESSMENT PATTERN

COURSE END EXAMINATION

Name of the Course : Vermiculture

Course Code : ZOO22234-Vermiculture

Course Coordinator : Mr.P.Ramesh Kumar Academic Year : 2022-2023

Total work load : 40 Hours

System of Assessment : Internal

The assessment pattern for the certificate course is on Vermiculture for the academic year 2019-2020 is based on the norms laid for the certificate course.

Assessment shall hence forth be done on written basis, based on different type of questions, as per the syllabus question paper and blue print set for this purpose.

Approved:

- | | |
|--|--------------------|
| 1. Very short answers type questions : write at least two key points | 10 X 01 = 10 Marks |
| 2. Long answer type : write at least ten key points | 02 X 05 = 10 Marks |
| 3. Fill in the blanks | 05 X 01 = 05 Marks |
| 4. Matching | 05 X 01 = 05 Marks |
| 5. Choose the following | 05 X 01 = 05 Marks |
| 6. True or False | 05 X 01 = 05 Marks |



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Date: 29.06.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE VERMICULTURE

STUDENTS LIST

Name of the Course: Vermiculture

Course Code: ZOO22234-

Vermiculture

Course Coordinator: Mr.P.Ramesh Kumar Academic

Year: 2022-2023

Total work load: 48 Days / 1 Hour per day

SL. NO.	HALL TICKET NUMBER	NAME OF THE CANDIDATE	GROUP
1	720125405004	B. NAGAMALLESH	III MPC
2	720125405011	G. KALYAN	III MPC
3	720125405017	K. VIDYA SAGAR	III MPC
4	720125405024	K. DHANA LAKSHMI	III MPC
5	720125405030	P. RAM BABU	III MPC
6	720125405037	V. VISWANADHAM	III MPC
7	720125405046	J. HARSHAVARDHAN HEMANTH KIUMAR	III MPCs
8	720125405052	K. SAI KIRAN	III MPCs
9	720125405061	P. BHARGAV CHANDU	III MPCs
10	720125405068	P. PRAMEELA	III MPCs
11	720125405074	T. PRAVEEN KUMAR	III MPCs
12	721125405012	K. SAI MADHAVI	II MPC
13	721125405019	K. SRINU	II MPC
14	721125405025	L. GANI KIRAN	II MPC
15	721125405031	M. ASHOK KUMAR	II MPC
16	721125405037	R. MOHAN LOVA RAJU	II MPC
17	721125405043	T. VEERA BABU	II MPC
18	721125405050	B. BALA RAJU	II MPCs

19	721125405058	J. SUBBA RAO	II MPCs
20	721125405065	K. KALAVATHI	II MPCs
21	721125405071	M. UDAY KIRAN PATRUDU	II MPCs
22	721125405079	P. DILEEP KUMAR	II MPCs
23	721125405087	V. SOITHAMMA	II MPCs
24	721125405196	G. UDAY KIRAN	II MP WEB TECH
25	721125405206	N. AJAY	II MP WEB TECH
26	721125405213	T. SHYAM	II MP WEB TECH
27	720125405077	B. ASHOK KUMAR	III CBZ
28	720125405083	J. RASI	III CBZ
29	720125405089	K. SRUJANA	III CBZ
30	720125405096	P. KUMARI	III CBZ
31	720125405103	S. SATHI BABU	III CBZ
31	720125405109	V. D. VENKATA LAKSHMI	III CBZ
32	720125405115	B.SAI PRAKASH	III BZH
33	720125405121	K. SATYAVATHI	III BZH
34	720125405127	L. CHINNI	III BZH
35	720125405134	P. BABUJI	III BZH
36	720125405140	P. SUSMITHA	III BZH
37	720125405146	T. DASARADHI	III BZH
38	721125405089	A. VIJAYA LAKSHMI	II CBZ
39	721125405096	G. SARITHA	II CBZ
40	721125405102	K. SWETHA	II CBZ
41	721125405108	M. LALITHA	II CBZ
42	721125405114	P. CHANDU	II CBZ
43	721125405120	R. RAVI VARMA	II CBZ
44	721125405127	T. KANTHU BABU NAIDU	II CBZ
45	721125405133	A. ABRAHAM	II BZH
46	721125405139	CH. SURESH	II BZH
47	721125405145	G. BABJEE	II BZH
48	721125405151	K. AMAR NATH	II BZH
49	721125405157	K. JYOSHNA DEVI	II BZH

50	721125405163	O. RADHA KRISHNA	II BZH
51	721125405169	P. UDAYABHANU	II BZH
52	721125405175	S. SANTHOSH	II BZH
53	721125405182	SK. SALMA BEGAM	II BZH
54	721125405215	B. HYMAVATHI	II CB SEED TECH
55	721125405221	K. NARASIMHA MURTHY	II CB SEED TECH
56	721125405227	L. RAJESWARI	II CB SEED TECH
57	721125405233	P. KAVYANJALI	II CB SEED TECH
58	721125405240	V. KIRAN	II CB SEED TECH
59	120125403004	G. TARAK NARASIMHA NAIDU	III B.Com(GEN)
60	120125403011	K. RAVI SHANKAR	III B.Com(GEN)
61	120125403017	K. CHANDRA SEKHAR	III B.Com(GEN)
62	120125404004	B. GIRI SHANKAR VARMA	III B.Com(VOC)
63	120125404010	G. MAHESH	III B.Com(VOC)
64	120125404018	K. TRINADH	III B.Com (VOC)
65	120125301005	B. SANDHYA	III HEP
66	120125301011	B. VIKAS RAJU	III HEP
67	120125301018	K. NARAYANA	III HEP
68	120125301076	B. ANJALI	III SPL. ENG
69	120125301082	K. ARUNA KUMARI	III SPL. ENG
70	120125301088	M. ANIL KUMAR	III SPL. ENG
71	120125301111	D. SUMITRA	III SPL. TEL.
72	120125301116	K. SUNDARI	III SPL. TEL.
73	120125301121	K. BEESU	III SPL. TEL.
74	121125301001	A. MANOJ KUMAR	II HEP
75	121125301003	A. RAMESH NAIDU	II HEP

Vermiculture attendance sheet

SL. NO.	NAME OF THE CANDIDATE
1	B. NAGAMALLESH
2	G. KALYAN
3	K. VIDYA SAGAR
4	K. DHANA LAKSHMI
5	P. RAM BABU
6	V. VISWANADHAM
7	J. HARSHAVARDHAN HEMANTH KIUMAR
8	K. SAI KIRAN
9	P. BHARGAV CHANDU
10	P. PRAMEELA
11	T. PRAVEEN KUMAR
12	K. SAI MADHAVI
13	K. SRINU
14	L. GANI KIRAN
15	M. ASHOK KUMAR
16	R. MOHAN LOVA RAJU
17	T. VEERA BABU
18	B. BALA RAJU
19	J. SUBBA RAO
20	K. KALAVATHI
21	M. UDAY KIRAN PATRUDU
22	P. DILEEP KUMAR
23	V. SOITHAMMA
24	G. UDAY KIRAN
25	N. AJAY

Vermiculture attendance sheet

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		26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
26	T. SHYAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	B. ASHOK KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	J. RASI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	K. SRUJANA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	P. KUMARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	S. SATHI BABU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	V. D. VENKATA LAKSHMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	B.SAI PRAKASH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	K. SATYAVATHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	L. CHINNI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	P. BABUJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	P. SUSMITHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	T. DASARADHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	A. VIJAYA LAKSHMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39	G. SARITHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	K. SWETHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
41	M. LALITHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
42	P. CHANDU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43	R. RAVI VARMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
44	T. KANTHU BABU NAIDU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45	A. ABRAHAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46	CH. SURESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
47	G. BABIEE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48	K. AMAR NATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49	K. JYOSHNA DEVI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50	O. RADHA KRISHNA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51	P. UDAYABHANU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
52	S. SANTHOSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53	SK. SALMA BEGAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
54	B. HYMAVATHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
55	K. NARASIMHA MURTHY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56	L. RAJESWARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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Government Degree College

Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade **phone no: 08935 250013** Email ID :Paderu.jkc@gmail.com

CERTIFICATE OF COMPLETION

This is to certify that Sri/Kmr.S.RAJU, Regd. No. 720125405144 of B.Sc, CBZ of Govt. Degree College, Paderu, has completed Certificate Course in VERMICULTURE organized by Department of Zoology for the Academic Year 2022-2023. He/she passed the Course Successfully in A Grade. The overall performance of an individual is found to be Satisfactory.

SIGNATURE OF THE COORDINATOR

SIGNATURE OF THE PRINCIPAL

Govt. Degree College
PADERU 534 024
Alluri Sitharama Raju-Dist.

