

CERTIFICATE COURSE IN VERMI CULTURE 2018-19

ORGANIZED BY DEPARTMENT OF ZOOLOGY

REPORT OF THE EVENT

A 30 Hours certificate course in "Vermi Culture" was introduced for Zoology students on 24-01-2019 for the period of 30 hours with a 1:00 hour training session in the evening from 4.00 pm to 5:00 pm. Within the 1:00 hours of training, 30 minutes was allotted to preparation of vermi compost. Apart from the holidays course was successfully organized for a period of 30 days. Total of

26 students were registered and completed the course successfully. A minimum of 75% attendance and practicals were taken as criteria for the completion of the course. Certificates were given to students who successfully completed the course work as well as practicals.

The outcome of the course was, During the vermicomposting process, earthworms play an important role in **converting biodegradable organic matter into high quality manure**. Earthworm gut microorganisms produce exoenzymes that help to degrade organic matter into forms of nutrients that are available for plant growth. Students well aware about the establishment Vermi composting unit in their localties.

Govt.Degree College MAHABUBABAD-506101

SYLLABUS (30 HOURS)

VERMICULTURE (30 HOURS)

DEMOSTRATOR: SRI. B. VENKATESHWARLU

Unit 1:

- 1. Introduction to Vermiculture, Definition, Classification, History, Economic importance, their value in maintenance of Soil structure.
- 2. It's roll in Biotransformation of the residuous generated by human activity and production of Organic fertilizers.
- 3. choosing the right warm useful species of earthworms, local species of earthworms, Exotic species of earthworms.
- 4. Biology of peritima posthuma, a) Taxonomy, Anatomy, physiology and reproduction b) Vital cycle of peritima posthuma alimentation, Fecundity, annual reproducer potential.

Unit 2

- 5. limit factors (Gases, diet, humidity, temperature, pH, light and climatic factors)
- 6. Physiochemical parameters of vermicompost
- 7. Different methods of vermicomposting: Small and large scale Bed method, fit method, small scale earthworms forming for home Gardens, earthworm composed for home Gardens.
- 8. Conventional Commercial Composting. Earthworm composting larger scale.
- 9. Pest and diseases of earthworms, frequent problems, how to prevent and fix them, complementary activities of auto evolution.
- 10. Nutritional composition of vermicompost for plants comparison with other fertilizers.

Unit 3

- 11. Earthworm farming (vermiculture) Extraction (harvest) vermicomposting 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

Practicals

Scientific classification, external morphology, digestive system. Reproduction of earthworm. Vermicomposting unit, pit method. Establishment of vermicomposting unit, bed method. Establishment of vermiwash unit, vermicompost production, harvesting and packaging study of cocoon and vermicast, study of pest and diseases of earthworms.

VERMICULTURE (30 HOURS)

DEMOSTRATOR: Sri B. VENKATESHWARLU

MODULE-I – INTRODUCTION OF VERMICULTURE (2 hours)

MODULE-II - PREPARATION OF INGREDIANTS (4 hours)

MODULE-III – THEORY CLASSSES (4 hours)

PRACTICALS (PRACTICE SESSION (20 hours)





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Govt. Degree College - Mahabubabad Certificate courge-Vermiculture Annual Exam - 2018-19 MCQS Max Murks: 20 1. Vermiculture related to [] Time : 1 hr. A) Earthworms B) Silkworms c) Honeybees D) Fishes. 2. Earthworm belongs to which phylum. [] A) Arthropoda B) Annelida c) Mollusca D) Echinodermata. 3. scientific name of presearthworm [] A) periplamata B) Bombix C) peritima D) Pila. 4. peritima belongs which class in Annelida phylum [] A) Polycheata B) Oligocheata c) Hirudinia d) Archannelida. 5. Friend of farmer [] A) Earthworm B) Cockroach c) Leech D) Ascaris. Fill in the Blanks, 6. Excretory organs in Earth Worms -7. Respiration takes _____ Method in Earthworm. g. clitellar segments in Earthworm. 9. - type of circulation in Earthworm. 10. locomotory organs in Earthwork .____ 11. Which type of coelome present in Earth worms. -12. 1st segment of Earth. worm called _____ 13. last segment of Earth worm Called _____ 14. In Earth Worm Hearnoglobin desolved in 15. The Skin of the Earth Worm Cover with _____ 16. Respiratory organ in Earthworm _____ 17. Vermicompost is the Excretion of 18. Howmany Earthworms comes out from cocoon in development 19. Segmentation of Earthworms as called _____ 20. One Example for the Biofestilizer is

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Certificate Course Feedbac	k Form 2018-19.
Course Title: Verm; culture Venue: (out. Degree College
Please fill the short auestionnaire to make the course better.	Mahobubabad
Your background: Student	a de la general de
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Please respond below with 1, 2, 3, 4 or 5, where 1 and 5 are expl	lained.
THE DESIGN OF THE COURSE	
A. Were objectives of the course clear to you? Y	3 N 🗌
B. The course contents met with your expectations	Containing and
1. Strongly disagree 5. Strongly agree	
C. The lecture sequence was well planned	5
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1. Too few examples 5. Adequate examples	
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1. 100 low 5. 100 light	
F. The course compared with your expectations	5
G The course exposed you to new knowledge and practices	
1 Strongly disagree 5. Strongly agree	5
H. Will you recommend this course to your colleagues?	15
1. Strongly disagree 5. Strongly agree	
THE CONDUCT OF THE COUDSE	
A. The lectures were clear and easy to understand	5
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B. The teaching aids were effectively used	5 muss da. of t
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Government Degree College, Mahabubabad ESTD: 1984 Affiliated to Kakativa University NAAC & ISO 9001:2015 Certified Accredited by (Mahabubabad, Mahabubabad (Dist.), Telangana-506101). Website: https://gdcts.cgg.gov.in/mahabuhabad.edu e-Mail: wgl.jkc.mbad@gmail.com The course material handed out was adequate C. 5 1. Strongly disagree 5. Strongly agree D. The instructors encouraged interaction and were helpful 5 1. Strongly disagree 5. Strongly agree E. Were objectives of the course realized? Y N F. Please give overall rating of the course 90% - 100% () 60% - 70% () 80% - 90% (2) 50% - 60% () 70% - 80% () Below 50% (Please comment on the strengths of the course and the way it was conducted. It is very useful course to selfemploy 11 - 11, 51 ++2) Please comment on the weaknesses of the course and the way it was conducted. di 10 (8 m) - Nel -Please give suggestions for the improvement of the course. students enroleme Improve the Optional - Your name and contact address: M.Kavya Vinobanagar Physics of the Physics of the Thank you!! 2