



“Dissemination of Education through Knowledge, Science and Culture”  
-Shikshanmaharshi Dr. Bapuji Salunkhe



Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

**PADMABHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA TASGAON DIST- SANGLI**

**416 312 (Maharashtra) Phone No: (02346)250665**

(Affiliated to Shivaji University, Kolhapur)

**Internal Quality Assurance Cell**

**Organized**

**SKILL ORIENTED TRAINING PROGRAMME  
FOR  
NON-TEACHING STAFF  
ON  
“VERMICOMPOSTING”**

**2020-21**

|                              |   |
|------------------------------|---|
| <b>Event:</b>                | <b>Skill Oriented Training Programme for non teaching staff on 'Vermicomposting'</b>  |
| <b>Organizing Department</b> | Department of Zoology and Internal Quality Assurance Cell (IQAC)                      |
| <b>Duaration</b>             | <b>22<sup>nd</sup> July 2020 to 21<sup>st</sup> August , 2020</b><br><b>(30 days)</b> |
| <b>Participants</b>          | <b>14</b>   |

Padmbhushan Dr.Vasatraodada Patil Mahavidyalaya had organized a 30 days training programme, from 22<sup>nd</sup> July 2020 to 21<sup>st</sup> August , 2020 on 'Vermicomposting' to cover a total duration of 200 hours. The said training programme imparted theory as well as practical (hand-on) exposure on vermicomposting and management of organic wastes in agriculture for productivity improvement and livelihood security.

About 14 trainees (Non-teaching staff), from our college participated in the programme. Various subject matter experts from the institute covered several important aspects on relevance of vermicompost in present scenario, species diversity, biology of earthworms and their role in bio transformation of organic waste, process of earthworms inoculation and factors influencing decomposition process, water and nutrient management, care and maintenance during vermicomposting, sieving and packaging of vermicompost and relevant safety practices associated with compost making and use. All the necessary steps involved in preparation of vermicompost such as pre-treatment of organic waste, filling of bedding materials, inoculating earthworms, piling of vermicompost pit, watering, harvesting and vermiwash preparation were

practiced by the trainees themselves. Trainees were also exposed to hands on training at vermicompost unit at college campus.

The aim of training was to develop potential knowledge and skill of the trainees to carry out defined task and responsibilities related to vermicomposting. “Training is the process of acquiring specific skills to perform a job better” was main motto.. All trainees will be getting certificate. During the programme, the participants were provided with the hands-on-training of scientific vermicompost production along with the exposure to the various operations of the vermi-compost production process

. Syllabus

## **UNIT 1**

1. Introduction to vermiculture, definition, classification, history, economic important, their value in maintenance of soil structure.
2. Its role in bio transformation of the residues 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 Pheretimaposthuma. a) Taxonomy Anatomy, physiology and reproduction. b) Vital cycle of Pheretimaposthuma: alimentation, fecundity, annual reproducer potential.

## **UNIT 2**

5. Limit factors (gases, diet, humidity, temperature, PH , light, and climatic factors).
6. Physio- chemical parameters of vermicompost
7. Different Methods of Vermicomposting: Small- and large-scale Bed method, Pit method Small Scale Earthworm farming for home gardens - Earthworm compost 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 evaluation.

10. Nutritional Composition of Vermicompost for plants, comparison with other fertilizer.

### **UNIT 3**

11. Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing. 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

### **PRACTICAL**

- Scientific classification of Earthworm Study of external morphology of Earthworm
- Study of habit and habitat of Earthworm
- Study of Digestive system of earthworm Study of Reproduction of earthworm Vermicomposting unit Pit method
- Establishment of vermicomposting unit Bed method Establishment of vermiwash unit Vermicompost production, harvesting and packaging.
- Greenhouse media.



Bed preparation for vermicompost



Adding water for maintaining proper humidity.

# शेतकऱ्यांनी गांडूळखताची निर्मिती करावी

प्राचार्य डॉ. हुजरे : तासगाव महाविद्यालयात गांडूळखत निर्मिती प्रकल्प सुरू

**तासगाव : पुढारी वृत्तसेवा**

बदलत्या वातावरणाचा अभ्यास करून रासायनिक खतांच्या वापराला निर्बंध घातला पाहिजे. सेंद्रिय पद्धतीने शेती केली पाहिजे. त्यासाठी प्रत्येक शेतकऱ्याने स्वतः गांडूळ खत निर्माण करावे, असे प्रतिपादन प्राचार्य डॉ. मिलिंद हुजरे यांनी केले.

ते तासगाव येथील पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालयातील प्राणीशास्त्र विभागाने सुरू केलेल्या गांडूळखत प्रकल्पाच्या उद्घाटनप्रसंगी बोलत होते.

डॉ. हुजरे म्हणाले, प्राणी शास्त्र विभागाने सुरू केलेला हा एक स्तुत्य उपक्रम आहे. महाविद्यालयाच्या परिसरातील झाडांची पाने व कचरा



तासगाव : येथे पद्मभूषण डॉ. वसंतरावदादा पाटील महाविद्यालयात प्राणी शास्त्र विभागाने सुरू केलेल्या गांडूळखत प्रकल्पाची पाहणी करताना प्राचार्य डॉ. मिलिंद हुजरे. शेजारी अन्य शिक्षक.

यापासून उत्कृष्ट गांडूळखत होऊ शकते हे त्यांनी दाखवून दिले आहे. या खताचे वाटप तासगाव परिसरातील गरजू शेतकऱ्यांना केले जाणार आहे. तसेच महाविद्यालयाच्या बागेसाठी या

खताचा उपयोग केला जाणार आहे.

परिसरातील शेतकरी आणि महाविद्यालयातील सेवक वर्ग यांना प्राणी शास्त्र विभागामार्फत गांडूळखत निर्मितीचे मार्गदर्शन केले जाणार आहे.

## Skill Oriented Training Programme for Non Teaching Staff on Vermicomposting

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# Skill Oriented Training Programme for Non Teaching Staff on Vermicomposting

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## Skill Oriented Training Programme for Non Teaching Staff on Vermicomposting

| Sr. No. | Name                 | Signature   |
|---------|----------------------|-------------|
| 1       | Gopalraje P.S.       | [Signature] |
| 2       | Sakubike J. M.       | [Signature] |
| 3       | Sarkar Shashikant A. | [Signature] |
| 4       | Desai G. S.          | [Signature] |
| 5       | Purohit H. S.        | [Signature] |
| 6       | Mohite J.R.          | [Signature] |
| 7       | Kale M K             | [Signature] |
| 8       | Mare D B             | [Signature] |
| 9       |                      |             |
| 10      | Sawant T-G.          | [Signature] |

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