

**Panskura Banamali College**

**(Autonomous)**

Panskura R.S., Purba Medinipur

West Bengal -721152

**Value-added Course**

On

**Vermicomposting production**

**(BITHVAC 004)**

**(w.e.f. 2022-23)**



Offered by: Department of Biotechnology

## COURSE INFORMATION IN BRIEF

**Course Name:** Vermicomposting production

**Course type:** Value-added Course

Medium: English

**Mode:** Blended (For Theory – online; For Practical – Offline)

**Intake Capacity:** Minimum 20; Maximum 40

**Eligibility:** Biotechnology Students from across College

**Duration:** 30 Hrs. (To complete within a time span of two months)

**Course Fees:** Rs.300.00 (Rupees Three hundred only)

**Coordinator:** Dr. Somnath De

**Contact:** [biotechpbc@rediffmail.com](mailto:biotechpbc@rediffmail.com); [pbcsonmath@gmail.com](mailto:pbcsonmath@gmail.com)

### **Course Learning Objectives:**

1. Production of vermicomposting
2. Introduction to the plantlet

### **Course Learning Outcomes:**

- ❖ Students will be able to compost in a limited space and describe the decomposing process.
- ❖ Interested students will get the knowledge of composting,
- ❖ Students will get employment,
- ❖ They can generate employment,
- ❖ They will also turn towards organic farming,
- ❖ Will help to maintain the environment pollution free and
- ❖ Will get knowledge of the biodiversity of local earthworms.

### **Course Title: Vermicomposting**

#### **Syllabus**

**Period – 30hrs.**

1. Selection of suitable organic wastes
2. Selection of carrier molecules
3. Selection of Earthworm strain
4. Production of vermin-compost
5. Quality check and maintenance
6. Introduction to the plantlet

#### **References:**

1. Mitchell, A. (1997). Production of *Eisenia fetida* and vermicompost from feed-lot cattle manure. *Soil Biology and Biochemistry*, 29(3-4), 763-76
2. Yadav, K. D., Tare, V., & Ahammed, M. M. (2011). Vermicomposting of source-separated human faeces by *Eisenia fetida*: effect of stocking density on feed consumption rate, growth characteristics and vermicompost production. *Waste management*, 31(6), 1162-1168.

