

COURSE DETAILS AND SYLLABUS

SKILL BASED CERTIFICATE COURSE

ON

VERMICOMPOST



B.H.B. COLLEGE, SARUPETA, BARPETA, ASSAM

SKILL BASED CERTIFICATE COURSE

ON

VERMICOMPOSTING UNIT, B.H.B. COLLEGE, SARUPETA, BARPETA,

Introduction

Vermicompost is known to be the world's best fertilizer. Vermicomposting is a method of preparing enriched compost with the use of earthworms. It is one of the easiest methods to recycle agricultural wastes and to produce quality compost. Earthworms consume biomass and excrete it in digested form called worm casts. Worm casts are popularly called as Black gold. The casts are rich in nutrients, growth promoting substances, beneficial soil micro flora and having properties of inhibiting pathogenic microbes. Vermicompost is stable, fine granular organic manure, which enriches soil quality by improving its physicochemical and biological properties. It is highly useful in raising seedlings and for crop production. Vermicompost is becoming popular as a major component of organic farming system. Using Vermicompost can fulfil the requirements for organically grown products.

Objective

The objective of these courses is to provide an opportunity to do an employment oriented/skill based courses. The following are the principal objectives of the course:

1. Awareness among students & society about benefit of Organic Farming.
2. Propagation of Vermicompost among farmers for better yield of Crop.
3. To develop training, skill & team work spirit among students & society.
4. Aware the students to make their own unit.

Eligibility

Admission to the Course requires minimum eligibility of 10+2 pass students.

Duration

The Duration of the Certificate Course is Three (Three) Months

Venue

The classes will be in the college premises.

Fee Structure

As per the Admission procedure of the office of the B.H.B. College, Sarupeta.

Course Outcome of the Programme

- Helps the students to know Vermicompost Organic manure to enrich soil fertility.
- Helps the students he procedure of production of Vermicompost
- Ensures early availability of various essential nutrients for plant growth.
- Earth Worms improves Soils physical, Chemical and biological properties.
- Vermi composting reduces the cost of cultivation and increases the yield both in qualitative and quantitative terms and reduces the inorganic fertilizer application.
- Helps in control of diseases and pests through antibiotics and balance nutrition.

Procurement of the certificate

After completion of the course, with minimum of 40% marks in the written examination, the successful candidates will get the Certificates from the Institution.

Course Content/SYLLABUS

Unit – I : Marks :20

Earthworms: Introduction of earthworms, Classification of earthworms and their types, The behaviour of earthworms as indicators of soil fertility, as plant growth promoters & soil health regulators, Role of Earthworms to protect Environment.

Unit – II Marks :20

Vermicomposting: Vermiculture and Vermicomposting, Advantages of Vermicomposting, Chemical composition of Vermicompost, earthworms and Vermicomposting at commercial scale. Vermicomposting and Sustainable agriculture, restoration of degraded soil systems, Vermicomposting and its economic viability.

Unit – III Marks :20

Economic Importance of Earthworms, Organic farming and earthworms, decomposers, food, medicine, and baits

Unit – IV Marks :40

HANDS-ON TRAINING/ FIELD VISIT

- Procedure of Production
- The Earthworm as study model and bioindicator (Soil toxicology)

- Study of the external morphology of Earthworm
- Study of Digestive system of Earthworm
- Study of Reproduction of Earthworm
- Vermicomposting unit maintenance

TOTAL STUDENTS ENROLLED AAND SUCCESSFULLY COMPLETED THE COURSE

Year	TOTAL STUDENTS ENROLLED	TOTAL SUCCESFUL CANDIDATES	Passed Certificate Provided	
2017	02	01	Yes	
2018	07	07	Yes	
2019	03	03	Yes	
2020	NIL	NIL	Yes	
2021	02	02	Yes	
2022	07	07	Yes	

B.H.B. College, Sarupeta