



ST JOHN'S COLLEGE, ANCHAL

**PG & RESEARCH DEPARTMENT OF
ENVIRONMENTAL SCIENCES**

Add-On Course

**The Department of Environmental Sciences is conducting the
following Add on Course during the academic year
2022-2023 for UG and PG students of the college**

HANDS- ON TRAINING ON VERMICOMPOSTING

Course Duration: 30 hrs

Eligibility: UG & PG Students

Date of Commencement

04-08-2022



Course Coordinator

Dr Kaladevi V

Hands-on vermicomposting training offers a well-rounded education in this eco-friendly practice and equips participants with the skills and knowledge needed to start their own vermicomposting projects, whether for personal use or commercial purposes. The training on vermicomposting can be incredibly beneficial for individuals interested in sustainable agriculture, organic farming, or waste management. Vermicomposting is the process of using earthworms to convert organic waste into nutrient-rich compost.

For further queries please contact the Course Coordinator



COURSE SUMMARY REPORT

2022-2023

Name of Course	ADD-ON COURSE Hands-on Training on Vermicomposting (ENV.A22.1)
Course Duration	30 Hours
Department offering the Course	Department of Environmental Sciences
Faculty In Charge	Dr Kaladevi V
Number of Students Enrolled	47
Start Date & End Date	04/08/2022 to 19/10/2022

The add on course on **Hands-on Training on Vermicomposting (Env.A.21.1)** has been coordinated by the Department of Environmental Sciences, St John's College, Anchal. The course was specially designed to provide the hands-on training course on vermicomposting can be a valuable addition to traditional composting methods. Vermicomposting is the process of using earthworms to decompose organic waste into nutrient-rich compost. The students to work with vermicomposting bins and gain practical experience at each stage of the process. The course had a well-defined syllabus and was approved by the IQAC. The add on course was coordinated by Dr Kaladevi V, Assistant Professor, Department of Environmental Sciences. The course was properly planned and organised to provide maximum support to students during their learning process. The course duration was 30 hours. 47 students enrolled for the program. The course started on 04.08.2022 and ended on 19.10.2022. During the end of course, an exit examination was conducted. All students wrote the examination. Final assessment was done based on the marks secured by them during the written and practical examination. All students passed in the examination. Certificates were also provided to them after the successful completion of the course.





SYLLABUS

Name of Course	ADD-ON COURSE (2022-2023) Hands-on Training on Vermicomposting
Course Code	ENV.A22.1
Department offering the Course	Department of Environmental Sciences
Course Duration	30 Hours
Faculty In Charge	Dr Kaladevi V

Course Title: EN.A.22.1 Hands-on Training on Vermicomposting

A hands-on training course on vermicomposting can be a valuable addition to traditional composting methods. Vermicomposting is the process of using earthworms to decompose organic waste into nutrient-rich compost.

Course Objectives:

1. Understand the principles and benefits of vermicomposting.
2. Identify suitable worm species for vermicomposting.
3. Set up and maintain a vermicomposting system.
4. Troubleshoot common vermicomposting issues.
5. Harvest and utilize nutrient-rich vermicompost.

Course Outcomes: At the end of the course, students should be able to:

- Successfully set up and maintain a vermicomposting system.
- Identify suitable feedstocks for earthworms and maintain optimal conditions for their health and productivity.
- Harvest and process high-quality vermicompost.
- Troubleshoot common issues and make informed decisions in managing a vermicomposting operation.
- Understand the potential for scaling up vermicomposting for personal or business use.



Assessment and Certification:

- Practical assessment: Participants will be evaluated based on their ability to set up and maintain a vermicomposting system.
- Written test: A written exam covering the theoretical knowledge learned during the course.
- Course completion certificate.
- Additionally, the course can be supplemented with field visits

Syllabus

MODULE	TITLE	CONTENT	HOURS
1	Introduction to Vermicomposting	Scope, importance and definition of Vermicomposting, Benefits of Vermicomposting, Sustainability and Environmental Impact	6
2	Earthworm Species and Setting up Vermicomposting Bins	Common Species Used, Life Cycle and Behaviour, Bin Selection, Bin Design and Setup, Preparing Bedding Material	3
4	Feeding Earthworms and Maintaining Optimal Conditions	Suitable Feedstocks, Balancing Green and Brown Materials, Frequency and Quantity of Feeding, Temperature and Moisture Control, Aeration and Ventilation, Monitoring and Adjusting Conditions	5
6	Harvesting and Processing Compost	When and How to Harvest, Separating worms from Compost, Curing and Storing Vermicompost	5
7	Troubleshooting	Common Issues and Solutions, Pest Management Disease Prevention	3
8	Scaling Up Production and Hands-On Practicum	Large-Scale Vermicomposting, Business and Entrepreneurship Opportunities To work with vermicomposting bins and gain practical experience at each stage of the process	8