30 Hour Add On Course on Vermi Culture

Offered by the Department of Sericulture:

DINABANDHU ANDREWS COLLEGE

GARIA, KOLKATA

Joy Sarkar

Title:
Certificate Course on Vermi Culture

Course Overview: This certificate course is designed to provide participants with comprehensive knowledge and skills related to vermi culture, which is the practice of raising worms for composting organic waste.

Course Duration: **30 hours (6 hrs per week x 5weeks)**
One Class (Theory): 1 Hour
Lab: 2 Hours
Final Assessment on the Last day

Course Fee: **Free of Cost**
Pedagogy: Lecture on theory and Practical
Course Coordinator: Mrittika Sengupta & Madhujaya Dasgupta

SYLLABUS STRUCTURE OF THE ADD-ON COURSE

Module	UNIT TITLE	HOURS
Module -1	Vermicomposting: Introduction and Scope	3
Module -2	Vermiculture & Vermicomposting	6
Module -3	Vermicomposting Methodology	9
Module -4	Economical aspects of Vermicomposting	9
Module -5	Vermicomposting & Organic Farming	3
Total		30

Module 1: Vermicomposting: Introduction and Scope

Objectives of Vermicomposting – Waste management, soil detoxification and Regeneration and sustainable agriculture. Role of earth worm in solid waste Management. Vermicomposting for mitigating & managing environmental Pollution.

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Module 2: Vermiculture & Vermicomposting

Collection & Identification of earthworms for vermicomposting, Detailed study of *Eisenia foetida* & *Eudrilus euginea,* Vermicomposting procedures, Vermicompost harvesting techniques, Vermiwash – collection methods.

Module 3: Vermicomposting Methodology

Preparation of Vermibed, Different types of Vermibeds , Maintenance & Monitoring of Vermibeds – Maintenance of favourable conditions , The Vermibed Preparation of feed & Managing Vemicomposting Unit. Precautions for compost Making Harvesting & Packing of Vermicompost Vermiwash preparation, Collection, Composition & Use.

Module 4: Economical aspects of Vermicomposting

Nutritional Composition of Vermicompost for plants, Factors determining Nutritional quality of vermicompost, comparison with other fertilizers on plant Growth & productivity , Role of vermicompost in soil fertility, Role of vermicompost bacteria in biomedical Waste management, Role of vermicompost in plant growth promotion, Role of Vermicompost in plant disease management, Role of vermicompost in arthropod Pest control, Influence of Earthworm activity on soil microbes.

Module 5: Vermicomposting & Organic Farming

Role of vermicomposting in agricultural waste management. Organic Farming: Concepts and principles of organic farming. The Agronomic, Social, Economic and Environmental Significance of Organic Farming. Significant Properties of Vermicompost & its Agricultural Values – Key indicators of sustainable agriculture, Organic farming.

Course Outcome :

- Knowledge of the environmental benefits of vermiculture, such as reducing organic waste, improving soil health, and sustainable agricultural practices.
- Participants will gain a comprehensive understanding of vermiculture, including its principles, techniques, and applications in agriculture and waste management.

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- Understanding safety protocols and regulations associated with vermiculture operations, ensuring compliance with environmental and health standards.

LEARNING RESOURCES

SL. NO.	TITLE OF THE BOOK	AUTHOR(S)	PUBLISHER
1	Worm Farming: Setup A Sustainable Vermiculture Earthworm Composting Ranch	Brian Grant	Sparrow Publication
2	Earthworm Vermiculture and Vermi-Composting	R .K. Palta	Kalyani Publication
3	Vermiculture Revolution	Rajiv K. Sinha, Dalsukh Valani	NOVA Publishers
4	Handbook of Vermi Culture and Vermi Compost	Dr. Shivakoti Narsaiah	Akinik Publications

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EVALUATION POLICY FOR THE ADD-ON COURSE

The basic philosophy behind the Evaluation policy for this 30 Hours Add-on course is to objectively judge the participants (students) whether the concepts were understandable to them or not and whether they could apply these concepts to solve numerical and conceptual problems. The Evaluation would be done through 2 components –

i) C1 Course-end Assessments (Written Test) [Total Marks: 30]

ii) C2 Practical /LAB [Total Marks: 20]

Total Marks of the Evaluation process would be – 50 Marks

TABLE FOR QUALIFICATION

TOTAL SCORE (OUT OF 50)	GRADE
45 – 50	O – OUTSTANDING
40 – 44	E – EXCELLENT
35 – 39	A – VERY GOOD
30 – 34	B – GOOD
25 -29	C – FAIR
BELOW 25	F – FAILED

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GENERAL RULES AND REGULATIONS

1. Students must attend and appear for all the Module-End Assessments. If any student fails to submit any of the Module-End Assignments or fails to attend any of the Module End Assessment examinations , the particular Student would NOT BE ELIGIBLE FOR CERTIFICATE.
2. Students must attend and appear for the Course-End Assessment Examination. If any student fails to submit the Course-End Assessment or fails to attend the Course-End Assessment Examination , the particular Student would NOT BE ELIGIBLE FOR CERTIFICATE.
3. Students must attend and appear for the Course-End Viva. If any student fails to fails to attend the Course-End Viva, the particular Student would NOT BE ELIGIBLE FOR CERTIFICATE.
4. Total Marks of Course Evaluation will be 50 Marks.
5. Minimum 50% Marks has to be scored to receive any Certificate. There will be only ONE Attempt allowed for each of the Module-End Assessments and the Course-End Assessment.
6. There will be NO PROVISION for Backlog Clearance.
7. General Rules and Regulations of the College must be followed without any exception.
8. **Minimum 75% attendance is required to receive the certificate of the course.**

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