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# **REPORT ON ADD ON COURSE**

Title	Vermicomposting Technology for Waste Management
Date of Start	7 <sup>th</sup> July 2023
Date of Complete	16 <sup>th</sup> July 2024
No of Days	78 days
<b>Duration:</b>	Contact Hours (Theory): 10 hours
	Contact Hours (Practical): 35 hours
Mode:	Offline
Syllabus:	

### SYLLABUS ON VERMICOMPOST TECHNOLOGY FOR WASTE MANAGEMENT

Learning Outcomes: Students at the successful completion of the course will be able to: (1) Acquire a critical knowledge on role of earth worms in making organic matter from biodegradable wastes (2) Understand the biology of some important species of earth worms used in vermiculture (3) Acquire theoretical knowledge on the processes and procedure for production of vermicompost and its utility (4) Acquire skills on hands-on production of vermicompost and vermiculture

Syllabus: (Hours: Teaching: 10 hrs, Lab: 35hrs)

**Unit 1: Introduction to Vermiculture**: Vermiculture - definition, meaning, history, economic importance, value in maintenance of soil structure, biotransformation of organic matter, role as four R's of recycling (reduce, reuse, recycle and restore).

**Unit 2: About Earthworm:** Basic body structure of earthworm; Distribution, Food habit and habitat of earthworms; Ecological requirements: moisture, temperature, pH, organic matter etc.; Ecological categories: Epigeic, Endogeic and Anecic earthworms; Ecosystem services i.e. role played by earthworms in soil ecosystem; Useful species of earthworms, local and exotic species of earthworms;



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**Unit 3: Vermicomposting**: Bedding for earthworms; Methods of vermicomposting (a) Low cost floor beds (b) Tank system; Small scale compost for home gardens; Management during vermicomposting; Earthworm farming and extraction (harvest); Vermicomposting harvest and processing; Vermiwash collection and use.

Unit 4: Practical: Hands-on preparation of vermicompost.

#### **Reference Books:**

- Bhatt, J.V. and Khambata, S.R. 1959. Role of Earthworms in Agriculture. Indian Council of Agricultural Research, New Delhi.
- Bridgens, S. 1981. The importance of the earthworms. Span 22(8): 20.
- Edwards, C.A. and Lofty, J.R. 1977. Biology of Earthworms. Chapman and Hall Ltd., London.
- Hennuy, G. and Gaspar, C. 1986. Treatment of wastes by worms. Bulletin des Recherches Agronomiques de Gembloux 21(3): 359-67.
- Ismail, S.A. 1995. Earthworms in soil fertility management. In: Organic Farming, Thampan, P.K., (ed.), pp: 77- 100. Peekay Tree Crops Development Foundation, Cochin, India.
- Julka, J.M. 1986. Earthworms resources of India. In: Proceedings of the National Seminar on Organic waste utilization and vermicomposting, Part-B: Verms and Vermicomposting, Dash, R.C., Senapathi, B.K. and Mishra, P.C. (eds.), Burla, India, pp: 1-7.
- Kevin, A. and Lee, K.E. 1989. Earthworm for Gardeners and Fisherman. CSIRO, Australia, Division of Soils.
- Lavelle, P. 1988. Earthworm activity and the soil system. Biology and fertility of Soils 6: 237-251.
- Lavelle, P., Bignell, D., Lepage, M., Wolters, V., Roger, P., Ineson, P., Heal, O.W. and Dhillion, S. 1997. Soil function in a changing world: the role of invertebrates ecosystem engineers. European Journal of soil Biology 33: 159-193.
- Lee, K.E. 1985. Earthworms: Their ecology and Relationship with Soils and Land Use. Academic Press, Sydney.
- Madan, M., Sharma, S., Bisaria, R. and Bhamidimarri, R. 1988. Recycling of organic wastes through vermicomposting and mushroom cultivation. Alternative waste treatment systems: 132-141.
- Sharma, S., Pradhan, K., Satya, S. and Vasudevan, P. 2005. Potentiality of Earthworms for Waste Management and in Other Uses – A Review. The Journal of American Science 1(1): 4-16.

Wallwork, J.A. 1983. Earthworm Biology. Edward Arnold (Publishers) Ltd. Londo

**Course module:** Module I- Introduction to Vermiculture

Module II- About Earthworm

Module III- Vermicomposting



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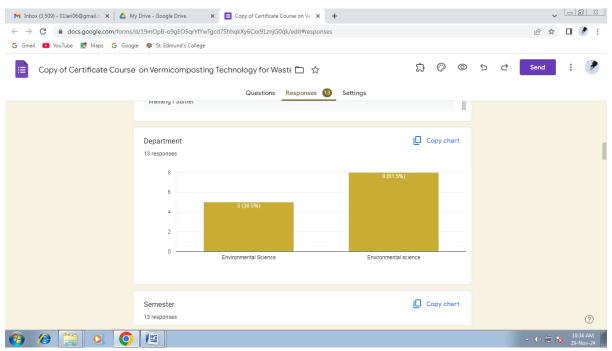
Module IV: Practical: Hands-on preparation of vermicompost.

### Collaborators (if any) None

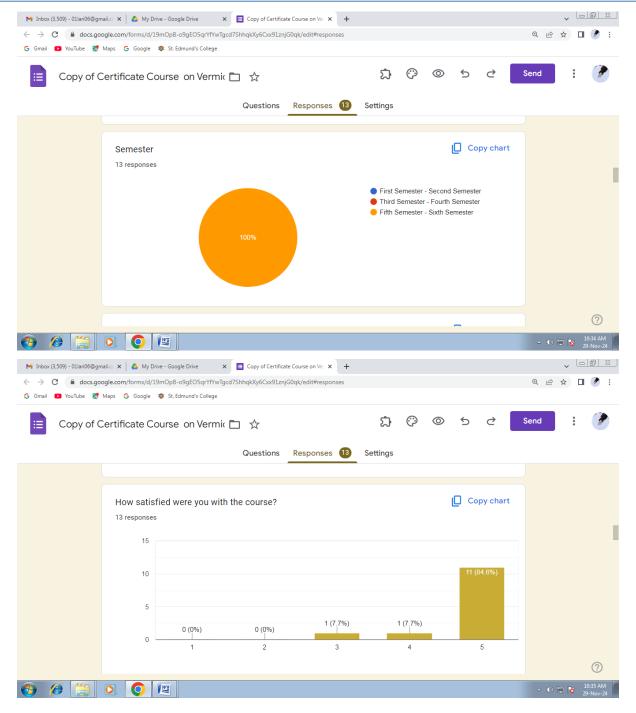
ObjectiveAble to explain the need and concept of eco-friendly technologyProduction of useful products like vermifertilizers or nutrient-rich compostHelps in reducing the amount of organic wastes

**Outcome:** Students at the successful completion of the course will be able to: (1) Acquire a critical knowledge on role of earth worms in making organic matter from biodegradable wastes (2) Understand the biology of some important species of earth worms used in vermiculture (3) Acquire theoretical knowledge on the processes and procedure for production of vermicompost and its utility (4) Acquire skills on hands-on production of vermicompost and vermiculture

#### Feedback





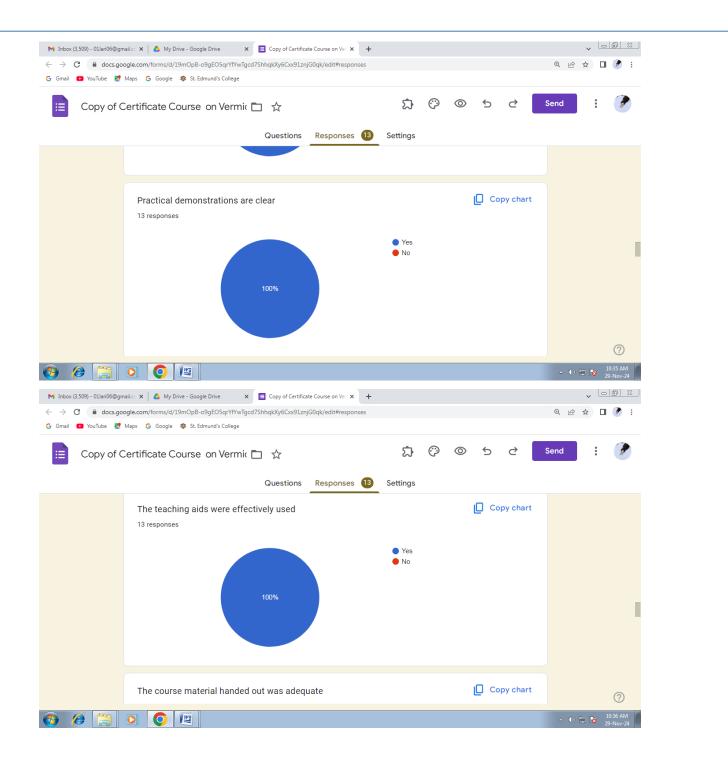




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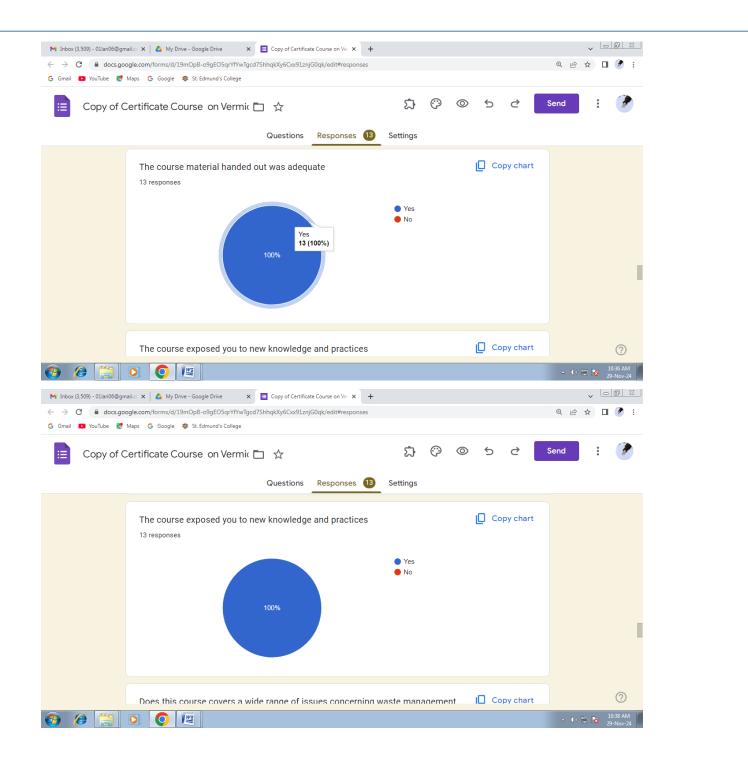


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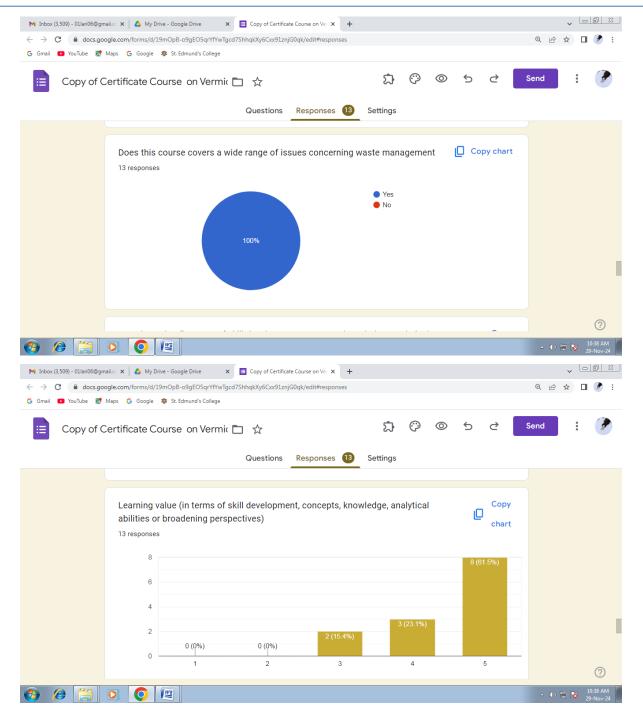


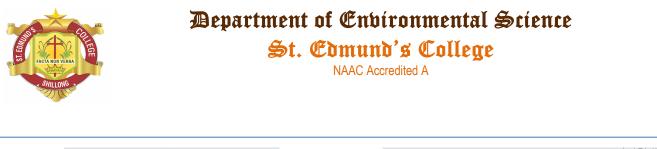


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Any overall feedback or suggestion for the course

### 13 responses

The best teachers ever



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It was really good and something really important related to my field of study. Is very helpful Time management Great learning experience. Miss LJ explained every step very thoroughly. Everything taught by Miss was clear and easy to grasp and understand. it was progressive and innovative for soil conservation Doing it a bit earlier No No, It's every helpful Informative and broadening of knowledge. It helped to gain a new field of knowledge and information that can be applied in our day-today life and showing importance of earthworms n the power to generate income

From this course we learn that vermicompost can prepare both in small and large scale

### Feedback analysis

- 84% of the respondent were satisfied with the course
- 100% were clear with the objectives of the course
- 100% were clear and understand the lectures provided
- 100% were clear with the practical demonstration
- 100% agrees that the teaching aids were effectively used
- 100% agrees that the course materials handed out to them were adequate
- 100% agrees that the course exposed them to a new knowledge and practices
- 100% agrees that the course covers a wide range of issues concerning waste management
- 61.5% agrees with the learning values (in terms of skill development, concept, knowledge, analytical abilities or broadening perspectives)
- 69.2% finds the course applicable/relevant to their real life situation
- 53.8% finds the course as relevant and helpful for their career



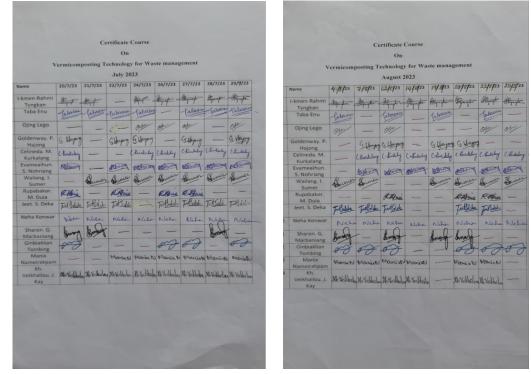
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#### Geo tagged photos (2 nos)



#### Any other information as per your choice

#### **Students Attendance:**





## Department of Environmental Science

St. Edmund's College

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	her success in all her e	
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Co-ordinator Department of Environmental Science	Principal-in-charge St. Edmund's College	(H.O.D) Department of Environmental Science