



SGT UNIVERSITY GURUGRAM

FACULTY OF AGRICULTURAL SCIENCES (FASC)

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Report on Employability Skill Development Module: Vermicomposting Training Program

Organized by: Faculty of Agricultural Sciences

Date: 11Feb., 2023 to 31 May, 2023

Time: 09:00 AM to 4:00 PM

Venue: Agricultural Research Farm, SGT University

Module Coordinator: Dr. Hansraj Shivran, Ph.D. in Agronomy, Assistant Professor

Introduction:

This report presents an evaluation of the Employability Skill Development Module on Vermicomposting conducted by Dr. Hansraj Shivran, Ph.D. in Agronomy, Assistant Professor in the Faculty of Agricultural Sciences at SGT University. The program aimed to provide participants with comprehensive training on vermicomposting techniques and develop their employability skills in the field of sustainable agriculture. The program spanned a duration of 15 weeks and attracted a total of 32 students.

Program Objectives:

The key objectives of the Vermicomposting Training Program were as follows:

- a) To impart in-depth knowledge about vermicomposting techniques, including the selection and management of earthworms, feedstock preparation, and composting process optimization.
- b) To develop practical skills in setting up and managing vermicomposting units, monitoring compost quality, and troubleshooting common issues.
- c) To enhance participants' understanding of the environmental and economic benefits of vermicomposting as a sustainable waste management solution.
- d) To foster employability skills such as teamwork, communication, problem-solving, and entrepreneurial mindset among participants.

Program Details:

The Vermicomposting Training Program spanned 15 weeks and comprised a combination of theoretical sessions, hands-on training, practical demonstrations, and field visits. The program curriculum covered the following key topics:

- a) Introduction to Vermicomposting: Overview of vermicomposting, its significance in sustainable agriculture, and the role of earthworms in the process.
- b) Earthworm Species and Selection: Identification of suitable earthworm species for vermicomposting, their characteristics, and requirements.

- c) Feedstock Preparation: Techniques for sourcing and preparing organic waste materials for vermicomposting, including composting methods and proper waste segregation.
- d) Vermicomposting Unit Setup: Practical guidance on setting up vermicomposting units, including container selection, bedding preparation, and earthworm stocking.
- e) Composting Process Management: Monitoring and maintaining ideal conditions for earthworm activity, moisture control, temperature regulation, and pest management.
- f) Compost Harvesting and Utilization: Techniques for harvesting mature compost, compost quality assessment, and utilization in agriculture and horticulture.
- g) Environmental and Economic Benefits: Understanding the environmental advantages of vermicomposting, including waste reduction, soil health improvement, and sustainable nutrient cycling.
- h) Marketing and Entrepreneurship: Exploring business opportunities in vermicomposting, branding and packaging of Vermicompost products, and marketing strategies.

Teaching Methodology:

Dr. Hansraj Shivran employed various teaching methodologies to ensure effective learning outcomes and skill development:

- a) Lectures: Engaging lectures were delivered to provide theoretical knowledge on vermicomposting techniques, environmental benefits, and entrepreneurship opportunities.
- b) Practical Demonstrations: Hands-on training and practical demonstrations were conducted to familiarize participants with the process of setting up vermicomposting units, earthworm management, and compost quality assessment.
- c) Field Visits: Participants were taken on field visits to vermicomposting facilities and organic farms to observe and learn from successful vermicomposting practices.
- d) Group Activities and Discussions: Interactive sessions involving group activities, case studies, and discussions were conducted to encourage teamwork, problem-solving, and critical thinking skills.

Skill Development:

The Vermicomposting Training Program aimed to develop the following skills among participants:

- a) Technical Skills: Participants gained practical skills in earthworm selection, composting process management, compost quality assessment, and vermicompost utilization.
- b) Communication Skills: Through presentations and group activities, participants developed effective communication skills to convey their knowledge and ideas.
- c) Problem-Solving and Critical Thinking: Participants were encouraged to analyze and solve issues related to vermicomposting, such as troubleshooting composting problems and optimizing process parameters.
- d) Entrepreneurial Skills: The program provided insights into the entrepreneurial aspects of vermicomposting, including business planning, marketing strategies, and product development.

e) Teamwork and Collaboration: Group activities and field visits fostered teamwork and collaboration, simulating real-life scenarios in the vermicomposting industry.

Program Evaluation:

The Vermicomposting Training Program conducted by Dr. Hansraj Shivran received positive feedback from participants. The evaluation was conducted through participant surveys and feedback sessions. Key evaluation parameters included overall satisfaction, perceived skill development, program content, and the expertise of the facilitator. The majority of participants expressed high levels of satisfaction, reporting significant skill enhancement in both technical and employability domains.

Conclusion:

The Employability Skill Development Module: Vermicomposting Training Program, conducted by Dr. Hansraj Shivran, proved to be highly effective in equipping participants with the necessary skills and knowledge for a successful career in the field of sustainable agriculture. The program's comprehensive curriculum, combined with hands-on training and practical demonstrations, ensured holistic development and enhanced employability skills among the participants. The positive feedback received from the participants highlights the success of the program in imparting both technical expertise in vermicomposting and entrepreneurial skills, positioning graduates for future employment or entrepreneurial opportunities in the sustainable agriculture sector.



Students Putting Raw Material



Students Putting Cow Dung in Pits



Students extracting Vermicomposting



Students Further Processing Vermicomposting

Employability skill development Module: Vermicomposting

List of students enrolled in Vermicomposting

Sr. No.	Registration no.	Name of the students	Attendance
1.	191101009	Rohit	P
2.	191101017	Sanjeev Kaushik	P
3.	191101039	Vikash	P
4.	191101044	Jagarti Panwar	P
5.	191101047	Sudhir Dagar	P
6.	191101064	Sunil	P
7.	191101071	Himanshi	P
8.	191101075	Devanshi Raghav	P
9.	191101080	Yash Kumar	P
10.	191101081	Love Katara	P
11.	191101086	Amit Kumar	P
12.	191101087	Sarvesh Agarwal	P
13.	191101091	Komal Yadav	P
14.	191101092	Naman Kumar	P
15.	191101093	Mohammed Talim	P
16.	191101001	Tarun Dagar	P
17.	191101003	Vidhi	P
18.	191101007	Hitesh Kumar	P
19.	191101008	Prince K. Singh	P
20.	191101018	Rohit Yadav	P
21.	191101020	Harsh Kumar	P
22.	191101028	Lakshay Kumar	P
23.	191101029	Tanu	P

24.	191101041	Karmnath Kumar	P
25.	191101046	Ashish Yadav	P
26.	191101049	Vikash	P
27.	191101054	Harish Kumar	P
28.	191101055	Digamber	P
29.	191101077	Rahul	P
30.	191101090	Akshay Kumar	P
31.	191101021	Muskan Kadyan	P
32.	191101069	Paramjeet	P


Coordinator


Dean
Faculty of Agricultural Sciences
SGT University
Gurugram (Haryana)