



Integral Institute of Agricultural Science & Technology (IIAST) Integral University, Lucknow

A Brief Report on Value Added Course on “PRODUCTION & POST-HARVEST HANDLING OF MUSHROOM”

Course No: AGB- 02-2324

(16th NOVEMBER– 5th DECEMBER, 2023)

Organized by Department of Agriculture,
Integral Institute of Agricultural Science and Technology (IIAST)
Integral University, Lucknow

The production and consumption of edible mushrooms have witnessed a sustained increase over the past two decades, primarily attributed to their recognized nutritional and health benefits. Mushroom cultivation can be undertaken through both traditional farming practices and advanced high-tech industry methods. Given the escalating demand for mushrooms, there exists a favorable scenario for the expansion of the mushroom industry within the country.

In response to this growing interest and demand, the Integral Institute of Agricultural Science and Technology (IIAST) took proactive steps by organizing a comprehensive virtual value-added course on "Production & Post-Harvest Handling of Mushrooms." The course, conducted from 16th November to 5th December 2023, spanned over 30 hours and was thoughtfully designed by expert instructors. This course served as a valuable resource for individuals seeking insights into income generation through small-scale mushroom business ventures, especially in light of the current economic landscape. The initiative reflects the commitment of IIAST to provide knowledge and skills that align with contemporary needs and opportunities in the field of mushroom cultivation. This course was specially designed for all the UG, PG and Ph.D. course students of any department throughout the university. A total of 201 students were registered and more than 50% students were passed in the course based on quiz and attendance. This was a virtual mode course conducted and lectures were delivered daily between 7:00-9:00 PM including Quiz.

The Value-Added Course was conducted under the guidance of Dr. Saba Siddiqui, Head, Department of Agriculture, Integral University and was coordinated and facilitated by the following faculty members.

1. Dr. SHIPRAYADAV
2. Dr. PALLAVI SRIVASTAVA

The Course modules were addressed by the following resource persons:

S.No.	Date		Course Instructor	Module
	From	To		
1.	16/11/2023	19/11/2023	Dr. Shipra Yadav	Introduction, history and scope of mushrooms, structure and morphology and different species of mushrooms, geographical distribution of mushrooms, edible and non- edible mushrooms, health, nutritional, medicinal and cosmetic benefits of mushrooms. Quiz Test



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2.	20/11/2023	23/11/2023	Dr. Pallavi Srivastava	Cultivation & Production technology of mushrooms, Construction of rooms and wooden stacks for mushroom production, Compost preparation, sterilization of compost, spawning, spawn run, casing, harvesting and pinning. Quiz Test
3.	24/11/2023	27/11/2023	Dr. Shipra Yadav	Major post-harvest operations, sorting, grading and packaging, Value addition, technologies for improving shelf life of mushrooms, Modified atmosphere packaging, vacuum packaging. Quiz Test
4.	28/11/2023	01/12/2023	Dr. Pallavi Srivastava	Important fungal and bacterial diseases mushrooms and their management strategies, major insects and pest of mushroom and their ecological control. Quiz Test
5.	02/12/2023	05/10/2023	Dr. Shipra Yadav & Dr. Pallavi Srivastava	Problems related to long distance transportation, Demand and supply chain, Marketing structure. Quiz Test

Key Highlights of the VAC:

Sr.no	Date		Module title	Outcome
	From	To		
1.	16/11/2023	19/11/2023	Course Orientation	Students learned the basic knowledge of Mushroom production, they are aware of the identification of edible and poisonous Mushrooms.
2.	20/11/2023	23/11/2023	Mushroom Production Technology	Students studied the technique of Mushroom cultivation.
3.	24/11/2023	27/11/2023	Post-harvest management	They learned different Post harvesting management techniques of Mushrooms
4.	28/11/2023	01/12/2023	Disease and Pest Management	They understood about the different pest and diseases of mushroom.
5.	02/12/2023	05/10/2023	Transportation & Marketing	Learned the prospects and scope of mushroom cultivation in small scale industry

Number of students registered

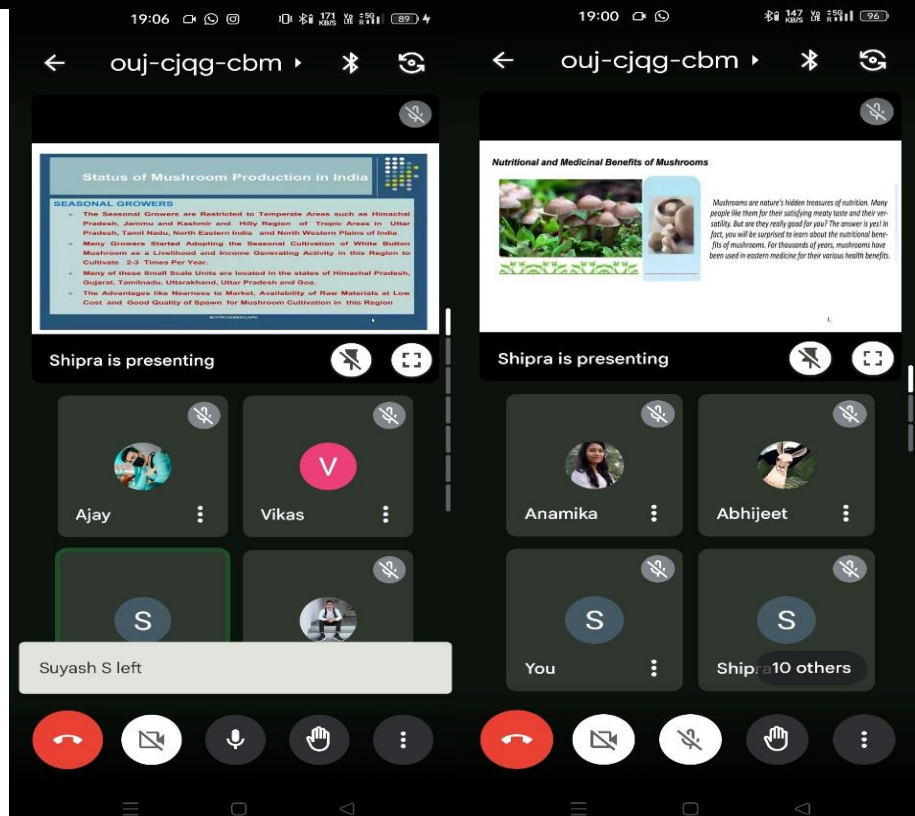
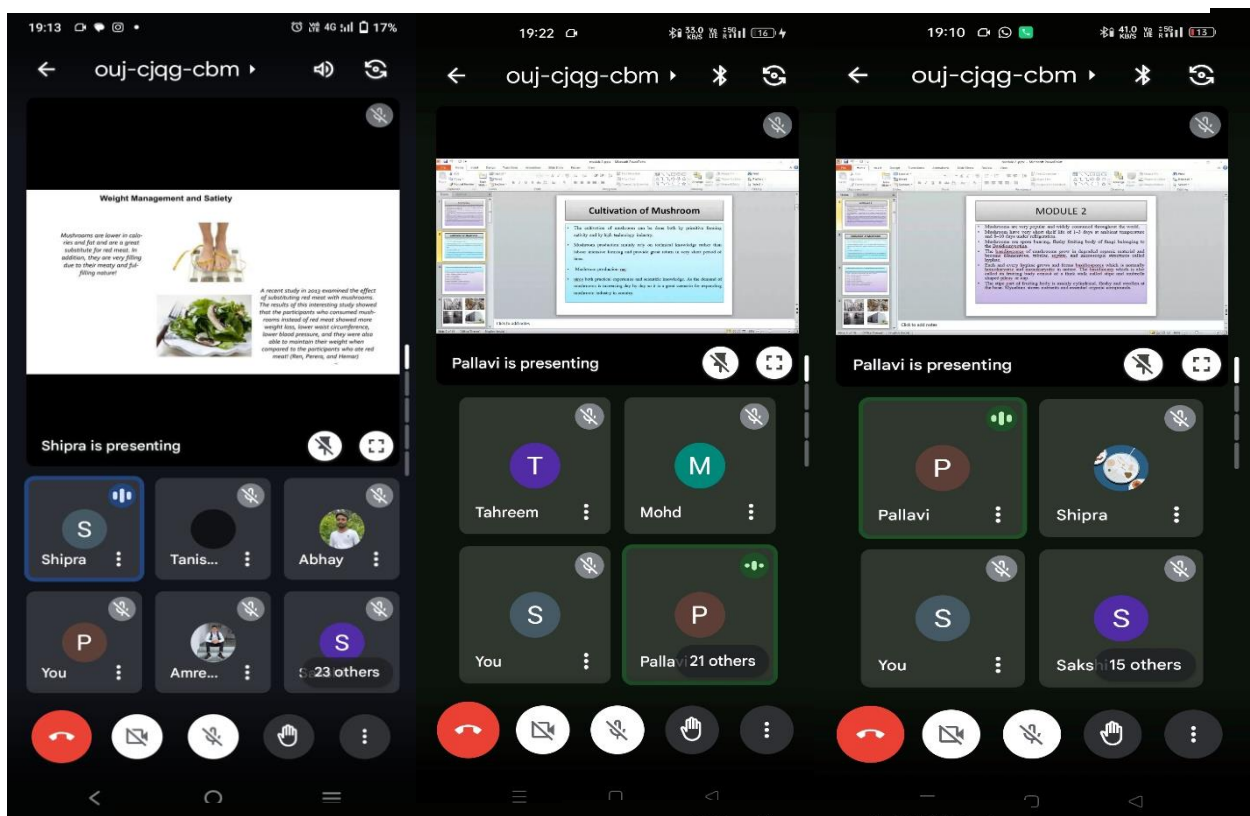
Number of students registered	No of students attained certificate	Percentage engagement
201	115	57.2 %

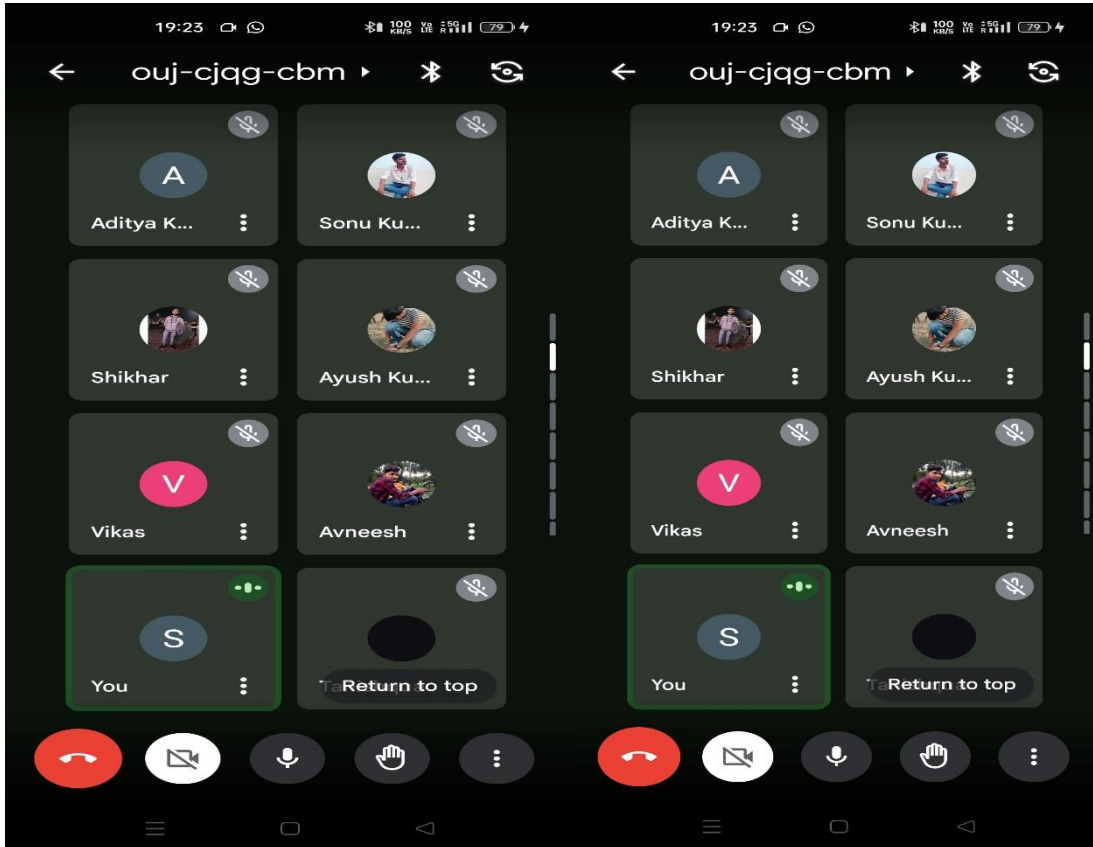


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All the participants who successfully completed the course were awarded e-certificates on the basis of their quiz test, feedback for every unit, attendance, general feedback, and moreover 50% qualifying criteria for the course. The VAC on mushroom production and post-harvest handling facilitated a holistic learning experience, empowering participants with both theoretical knowledge and practical skills while promoting the potential for economic opportunities within the mushroom industry.

Glimpse of VAC:





Sample Certificate:



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UNIVERSITY**
LUCKNOW - INDIA



INSPIRING EXCELLENCE

**INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE AND TECHNOLOGY (IIAST),
INTEGRAL UNIVERSITY, LUCKNOW**

CERTIFICATE OF COMPLETION

This is to certify that

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Enrolment No.:

has successfully completed Value Added Course on

"PRODUCTION & POST-HARVEST HANDLING OF MUSHROOM"

offered by

Department of Agriculture

from 16th NOVEMBER – 5th DECEMBER, 2023

Dr. Shipra Yadav
Assistant Professor
Course Coordinator

Dr. Pallavi Srivastava
Assistant Professor
Course Coordinator

Prof. Saba Siddiqui
Head,
Department of Agriculture, IIAST