



**INTEGRAL
UNIVERSITY**

LUCKNOW - INDIA

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DIAMOND



VALUE-ADDED COURSE ON

MUSHROOM PRODUCTION

FROM SPAWN TO HARVEST

AGV-02-2526

ORGANIZED BY
DEPARTMENT OF AGRICULTURE
INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY (IIAST)

16th OCTOBER - 05th NOVEMBER, 2025

Dear All,

We are delighted to inform you that the Department of Agriculture (IIAST), Integral University, Lucknow, will be offering a Value-Added Course (VAC) on “**Value added course on mushroom production: From Spawn to Harvest**” from **16/10/2025** open to students from all courses.

MUSHROOM PRODUCTION

Over the past two decades, mushroom production and consumption has grown very steadily due to its high nutritional value and health benefits. Mushroom Cultivation can range from small-scale traditional farming to advanced high-tech production which requiring more technical knowledge than labor-intensive methods. Mushroom cultivation gives quick returns with low initial investment and it also creates excellent opportunities for income generation, value-added product development, and year-round production. Mushrooms stand out as an efficient source of vital nutrients, including the B-complex vitamins, vitamin D and essential minerals such as potassium, selenium, and copper. Mushrooms are also the source of extensive array of therapeutic compounds which comprises of natural antibiotics, glycoproteins, triterpenoids, enzymes, and enzyme inhibitors. This course aims to enhance practical skills, foster entrepreneurship, and equip UG PG and Ph.D. students with low-cost, market-oriented techniques to start small-scale businesses in the current scenario.

Objectives

- To learn the basics and requirements of mushroom cultivation, including mother spawn and commercial spawn production.
- To understand mushroom production technology.
- To understand the post-harvest handling, value addition, and marketing of mushrooms for income generation and self-employment.
- To gain skills for self-employment and income generation through mushroom cultivation.

Learning Outcomes

Students will understand

- Principles of production technology of spawn and mushroom production.
- Scope and importance of mushrooms with its nutritional and health benefits.
- Post-harvest technology for packaging and handling of mushrooms.
- Value addition, Dynamics of marketing structures, demand–supply chains, and pricing strategies.
- Opportunities for entrepreneurship and small-scale industry establishment in mushroom cultivation.

Course Details

Course Name	: Value added course on Mushroom Production: From Spawn to Harvest
Course Code	: AGV-02-2526
Course Platform	: ILI (Integral Learning Initiative)/Goggle Meet
Course Duration	: 30 + Hours (2 hours per Day Excluding Quiz)
Registration Date	: 10/10/2025
Target Participants	: All Courses

OUTLINE OF VALUE ADD COURSE

Module 1

(6+1 hrs.)

Course Orientation Introduction, 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, Mother spawn and commercial spawn production.

Module 2

(6+1 hrs.)

Disease and Pest Management Important fungal and bacterial diseases mushrooms and their management strategies, major insects and pest of mushroom and their ecological control.

Module 3

(6+1 hrs.)

Mushroom Production Technology 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.

Module 4

(6+1 hrs.)

Post-harvest management Major post-harvest operations, sorting, grading and packaging, Value addition, technologies for improving shelf life of mushrooms, Modified atmosphere packaging, vacuum packaging.

Module 5

(6+1 hrs.)

Transportation & Marketing Problems related to long distance transportation, Demand and supply chain, Marketing structure, market-oriented techniques to start small-scale businesses.

TEAM VAC, DEPARTMENT OF AGRICULTURE

Dr Gopal Singh

Module 1

Dr Pallavi Srivastava

Module 2

Dr Gopal Singh

Module 3

Dr Pallavi Srivastava

Module 4

Dr Pallavi Srivastava

Module 5

*** Timing's : Everyday, 6:00 PM Onwards**

Total duration of course 30+ Hours Excluding Quiz/Assignments

*E-certificate will be issued to participants having 75% attendance and 50% marks in Quiz & Assignment

*Joining link will be shared on the registered email id one day before the commencement of the course

CONVENER

Prof. MOHD HARIS SIDDIQUI

Director

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

CO-CONVENER

Prof. SABA SIDDIQUI

Head

Department of Agriculture, (IIAST)
Integral University, Lucknow

Course Coordinator

Dr. Gopal Singh

Phone No. 9412465255 | Email: singhgopalpp2009@gmail.com

Dr. Pallavi Srivastava

Phone No. 7233013422 | Email : pallavisri@iul.ac.in

MODE ONLINE

SCAN THIS
QR CODE FOR
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Registration Form Link : <https://forms.gle/scHAazjjjQndbXCAA>



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