

VAC038	MUSHROOM CULTIVATION
Contact Hours	30 Hours
Prerequisite	Nil

Course Description

This course on Mushroom Cultivation is designed to provide participants with comprehensive knowledge and practical skills in cultivating various types of mushrooms, including edible and medicinal varieties. Participants will learn the principles of mushroom biology, cultivation techniques, and best practices for starting and managing a successful mushroom farming operation.

Course Objectives

Students will be able to:

- Understand the biology and life cycle of mushrooms.
- Learn the fundamentals of mushroom cultivation, including substrate preparation and spawn production.
- Master the cultivation techniques for popular edible and medicinal mushroom species.
- Gain practical experience in setting up and managing a mushroom farm.
- Explore sustainability and environmental considerations in mushroom cultivation.
- Understand quality control and pest management in mushroom farming.
- Learn about the business and marketing aspects of mushroom cultivation.

Course Outcomes

On completion of this course, students will be able to:

- CO 1: Explain the life cycle and growth requirements of mushrooms.
- CO 2: Cultivate a variety of mushroom species, including gourmet and medicinal mushrooms.
- CO 3: Set up and manage a mushroom cultivation facility.
- CO 4: Apply sustainable and environmentally friendly methods in mushroom cultivation.
- CO 5: Identify and manage common pests and diseases in mushroom farming.
- CO 6: Develop a business plan and marketing strategy for a mushroom cultivation venture.

Course Content

Module 1: Introduction to Mushroom Cultivation

2 hours

- The Importance of Mushroom Cultivation
- Types: Edible and Medicinal Mushrooms
- The Life Cycle of Mushrooms

Module 2: Mushroom Biology and Growth Conditions

3 hours

- Fungi as Organisms
- Environmental Factors for Mushroom Growth
- Substrate Selection and Preparation

Module 3: Spawn Production and Inoculation

4 hours

- Spawn Production Techniques
- Inoculation Methods
- Sterilization and Pasteurization
- Troubleshooting Spawn Production

Module 4: Cultivating Popular Edible Mushrooms

5 hours

- Cultivation of Shiitake, Oyster, and Maitake Mushrooms
- Substrate Requirements and Fruiting Conditions
- Harvesting and Post-Harvest Handling

Module 5: Medicinal Mushroom Cultivation

5 hours

- Reishi, Lion's Mane, and Cordyceps Cultivation
- Medicinal Properties and Benefits
- Extracts and Processing

Module 6: Managing a Mushroom Farm

4 hours

- Facility Design and Layout
- Equipment and Tools
- Hygiene and Sanitation
- Record Keeping and Quality Control

Module 7: Sustainability and Pest Management

4 hours

- Sustainable Practices in Mushroom Farming
- Pest and Disease Identification
- Integrated Pest Management
- Organic Approaches

Module 8: Business and Marketing

3 hours



- Business Planning for Mushroom Farms
- Marketing Strategies and Target Markets
- Regulatory Considerations
- Scaling and Expanding Operations

Practicum

Participants will engage in hands-on activities throughout the course, including substrate preparation, inoculation, fruiting, and pest management. The practicum will culminate in a project where students set up a small-scale mushroom cultivation operation, document their progress, and present their experiences and results.

Textbooks

1. Chilton, J. S., & Sinden, J. W. (1987). The Mushroom Cultivator: A Practical Guide to Growing Mushrooms at Home. Agarikon Press.
2. Stamets, P. (2005). Mycelium Running: How Mushrooms Can Help Save the World. Ten Speed Press.

Reference Books

1. Alves, M. J., & Ferreira, I. C. F. R. (2013). Wild Mushrooms: Mycolgical Profiling and Nutritional Value. CRC Press.
2. Chang, S. T., & Hayes, W. A. (1978). The Biology and Cultivation of Edible Mushrooms. Academic Press.
3. Rinker, D. L. (2019). The Essential Guide to Cultivating Mushrooms: Simple and Advanced Techniques for Growing Shiitake, Oyster, Lion's Mane, and Maitake Mushrooms at Home. Rockridge Press.
4. Sánchez, J. E. (2011). Cultivation of Oyster Mushrooms on Coffee Wastes and Agrowastes. CRC Press.
5. Wuest, R. (2019). Growing Gourmet and Medicinal Mushrooms. Ten Speed Press.

	Evaluation Component	Weightage (%)
1	Practical Activities	20
2	Project	20
3	Attendance	10
4	End Term Examination	50





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Ref.No.:KRMU/Admin./Notice/2020-21/ 1919(A)

Dated: 06th August, 2020

NOTICE

This is to put for information that School of Agriculture Sciences is offering Value-Added Course (VAC) for all interested students during Odd Semester as per the following specifications.

Course Code	Course Title	Coordinating Department / School	Duration
VAC038	Mushroom Cultivation	SOAS	30 Hrs.

- Maximum 100 seats are available for the course.
- Course Start Date: 03 September 2020
- Couse End Date: 01 November 2020

All interested students are required to confirm their registration with the Dean-School of Agriculture Sciences latest by 24th August, 2020

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Copy to: K R Mangalam University
Johna Road, Gurugram (Haryana)

- Vice Chancellor
- Dean (Academics Affairs)
- Controller of Examinations
- All Deans/ School Coordinators
- All Faculty Members/ Mentors
- Notice Board
- Office Copy

For kind information

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ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2020-21

COURSE CODE: VAC038

COURSE TITLE: MUSHROOM CULTIVATION

ROLL NO	NAME	PROGRAMME	SEMESTER	3-Sep-20	4-Sep-20	5-Sep-20	6-Sep-20	7-Sep-20	8-Sep-20
2013820001	SHEETAL	B.Sc. (H)	Semester I	P	P	P	P	A	P
2013820002	ABHISHEK JAYAKUMAR	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820003	PRANEY SURHA	B.Sc. (H)	Semester I	P	P	P	A	P	P
2013820004	HARISH YADAV	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820005	POONAM	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820006	ASHISH SAINI	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820007	MOHD TARIF	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820008	PINKI KUMARI	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820009	AAMIR KHAN	B.Sc. (H)	Semester I	P	P	A	P	P	P
2013820010	KARUNA	B.Sc. (H)	Semester I	P	P	P	P	P	P
2013820011	PRADYUM ARUN RATHOD	B.Sc. (H)	Semester I	A	P	P	P	P	P
2013820012	PARUL RAJ	B.Sc. (H)	Semester I	P	P	P	P	P	P
1913820002	PRIVANKA	B.Sc. (H)	Semester I	P	P	P	P	P	P
1913820003	JUNNED	B.Sc. (H)	Semester III	P	P	P	P	P	P
1913820004	SAQLAIN AHMAD ASADI	B.Sc. (H)	Semester III	P	P	P	P	P	P
1913820005	TUFAIL	B.Sc. (H)	Semester III	P	A	A	P	P	P

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VAC COURSE FOR ACADEMIC YEAR 2020-21

COURSE CODE: VAC038

COURSE TITLE: MUSHROOM CULTIVATION

ROLL NO	NAME	11-Sep-20	13-Sep-20	14-Sep-20	17-Sep-20	20-Sep-20	20-Sep-202	22-Sep-20	24-Sep-20
2013820001	SHEETAL	P	P	P	P	P	P	P	P
2013820002	ABHISHEK JAYAKUMAR	P	P	P	P	P	P	P	P
2013820003	PRANEY SURHA	P	P	P	P	P	P	P	P
2013820004	HARISH YADAV	P	P	P	P	P	P	P	P
2013820005	POONAM	P	P	P	P	P	P	P	P
2013820006	ASHISH SAINI	P	P	P	P	P	P	P	P
2013820007	MOHD TARIF	P	P	P	P	P	P	P	P
2013820008	PINKI KUMARI	P	P	P	P	P	P	P	P
2013820009	AAMIR KHAN	P	P	P	P	P	P	P	P
2013820010	KARUNA	P	P	P	P	P	P	P	P
2013820011	PRADYUM ARUN RATHOD	P	P	P	P	P	P	P	P
2013820012	PARUL RAJ	P	P	P	P	P	P	P	P
1913820002	PRIYANKA	P	P	P	P	P	P	P	P
1913820003	JUNNED	P	P	P	P	P	P	P	P
1913820004	SAQLAIN AHMAD ASADI	P	P	P	P	P	P	P	P
1913820005	TUFAIL	P	P	P	P	P	P	P	P

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VAC COURSE FOR ACADEMIC YEAR 2020-21

COURSE CODE: VAC038

COURSE TITLE: MUSHROOM CULTIVATION

ROLL NO	NAME	26-Sep-20	28-Sep-20	1-Oct-20	3-Oct-20	4-Oct-20	8-Oct-20	9-Oct-20	10-Oct-20
2013820001	SHEETAL	P	P	A	P	P	A	P	P
2013820002	ABHISHEK JAYAKUMAR	P	P	P	A	P	P	P	P
2013820003	PRANEY SURHA	P	P	P	P	P	P	P	P
2013820004	HARISH YADAV	P	P	P	A	P	P	P	A
2013820005	POONAM	P	P	P	P	P	P	A	P
2013820006	ASHISH SAINI	P	P	P	P	P	A	P	P
2013820007	MOHD TARIF	P	P	P	P	P	P	P	P
2013820008	PINKI KUMARI	P	P	A	A	P	P	P	A
2013820009	AAMIR KHAN	P	P	P	P	P	P	P	A
2013820010	KARUNA	P	A	P	P	P	P	P	P
2013820011	PRADYUM ARUN RATHOD	P	A	P	P	P	P	A	P
2013820012	PARUL RAJ	P	P	P	P	A	P	P	P
1913820002	PRIVANKA	P	P	P	P	P	P	P	P
1913820003	JUNNED	P	P	P	P	P	P	P	P
1913820004	SAQLAIN AHMAD ASADI	A	P	P	P	A	P	P	P
1913820005	TUFAIL	P	P	P	P	P	P	A	P

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COURSE CODE: VAC038

COURSE TITLE: MUSHROOM CULTIVATION

ROLL NO	NAME	11-Oct-20	13-Oct-20	15-Oct-20	16-Oct-20	20-Oct-20	19-Oct-20	22-Oct-20	23-Oct-20
2013820001	SHEETAL	P	P	P	A	P	P	A	P
2013820002	ABHISHEK JAYAKUMAR	A	A	A	P	A	P	P	P
2013820003	PRANEY SURHA	P	P	P	A	P	P	P	A
2013820004	HARISH YADAV	P	A	A	P	P	P	A	P
2013820005	POONAM	P	P	P	A	P	P	A	P
2013820006	ASHISH SAINI	P	A	A	A	A	P	A	P
2013820007	MOHD TARIF	P	P	P	P	P	P	P	A
2013820008	PINKI KUMARI	P	P	P	P	P	P	P	P
2013820009	AAMIR KHAN	P	P	P	P	A	P	A	P
2013820010	KARUNA	P	P	P	P	P	P	P	P
2013820011	PRADYUM ARUN RATHOD	P	P	P	P	A	P	A	P
2013820012	PARUL RAJ	P	P	P	P	P	P	A	P
1913820002	PRIYANKA	P	P	A	P	P	P	P	P
1913820003	JUNNED	P	P	P	A	P	P	P	P
1913820004	SAQLAIN AHMAD ASADI	P	P	P	P	P	P	P	P
1913820005	TUFAIL	A	P	P	P	P	P	A	P

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VAC COURSE FOR ACADEMIC YEAR 2020-21

COURSE CODE: VAC038

COURSE TITLE: MUSHROOM CULTIVATION

ROLL NO	NAME	24-Oct-20	26-Oct-20	29-Oct-20	30-Oct-20	1-Nov-20	Total	Present	Percentage
2013820001	SHEETAL	P	A	P	A	P	35	28	80.00
2013820002	ABHISHEK JAYAKUMAR	P	A	A	A	P	35	27	77.14
2013820003	PRANEY SURHA	P	P	A	P	A	35	29	82.86
2013820004	HARISH YADAV	P	P	P	P	A	35	27	77.14
2013820005	POONAM	P	P	A	P	P	35	31	88.57
2013820006	ASHISH SAINI	A	P	P	P	P	35	28	80.00
2013820007	MOHD TARIF	P	P	A	P	P	35	31	88.57
2013820008	PINKI KUMARI	P	P	A	P	P	35	28	80.00
2013820009	AAMIR KHAN	A	P	A	P	P	35	33	94.29
2013820010	KARUNA	P	P	P	A	P	35	28	80.00
2013820011	PRADYUM ARUN RATHOD	A	P	P	P	P	35	32	91.43
2013820012	PARUL RAJ	P	P	P	P	P	35	33	94.29
1913820002	PRIVANKA	P	P	P	P	P	35	32	91.43
1913820003	JUNNED	P	P	P	P	P	35	34	97.14
1913820004	SAQLAIN AHMAD ASADI	P	P	P	A	P	35	29	82.86
1913820005	TUFAIL	P	A	P	P	P	35	30	85.71


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VALUE ADDED COURSE (VAC)

ACADEMIC YEAR 2020-21

COURSE CODE: VAC038

COURSE TITLE: MUSHROOM CULTIVATION

COURSE OFFERED BY: SCHOOL OF AGRICULTURAL SCIENCES (SOAS)

LIST OF STUDENTS COMPLETING THE COURSE

S.NO	SESSION	ROLL NO	NAME	PROGRAMME	SEMESTER	COURSE CODE	COURSE TITLE	SCHOOL
1	2020-21	2013820001	SHEETAL	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
2	2020-21	2013820002	ABHISHEK JAYAKUMAR	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
3	2020-21	2013820003	PRANEY SURHA	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
4	2020-21	2013820004	HARISH YADAV	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
5	2020-21	2013820005	POONAM	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
6	2020-21	2013820006	ASHISH SAINI	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
7	2020-21	2013820007	MOHD TARIF	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
8	2020-21	2013820008	PINKI KUMARI	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
9	2020-21	2013820009	AAMIR KHAN	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
10	2020-21	2013820010	KARUNA	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
11	2020-21	2013820011	PRADYUM ARUN RATHOD	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
12	2020-21	2013820012	PARUL RAJ	B.Sc. (H) Agriculture	Semester I	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
13	2020-21	1913820002	PRIVANKA	B.Sc. (H) Agriculture	Semester III	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
14	2020-21	1913820003	JUNNED	B.Sc. (H) Agriculture	Semester III	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
15	2020-21	1913820004	SAQLAIN AHMAD ASADI	B.Sc. (H) Agriculture	Semester III	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)
16	2020-21	1913820005	TUFAL	B.Sc. (H) Agriculture	Semester III	VAC038	MUSHROOM CULTIVATION	SCHOOL OF AGRICULTURAL SCIENCES (SOAS)

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This is to certify that **SHEETAL**, University Enrolment No **2013820001** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

h. mahajan

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This is to certify that **ABHISHEK JAYAKUMAR**, University Enrolment No **2013820002** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

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This is to certify that **PRANEY SURHA**, University Enrolment No **2013820003** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **HARISH YADAV**, University Enrolment No **2013820004** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **POONAM**, University Enrolment No **2013820005** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **ASHISH SAINI**, University Enrolment No **2013820006** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **MOHD TARIF**, University Enrolment No **2013820007** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **PINKI KUMARI**, University Enrolment No **2013820008** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **AAMIR KHAN**, University Enrolment No **2013820009** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **KARUNA**, University Enrolment No **2013820010** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **PRADYUM ARUN RATHOD**, University Enrolment No **2013820011** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **PARUL RAJ**, University Enrolment No **2013820012** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **PRIYANKA**, University Enrolment No **1913820002** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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This is to certify that **JUNNED**, University Enrolment No **1913820003** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

Date: 25.03.2021

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Controller of Examination

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Registrar
K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)



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This is to certify that **SAQLAIN AHMAD ASADI**, University Enrolment No **1913820004** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC038 (Mushroom Cultivation)** during Academic Session **2020-21 (Odd Semester)**.

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