

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT OF BOTANY & RESEARCH CENTER

NOTICE

ADD-ON COURSE – MUSHROOM CULTIVATION

Dear students,

We are excited to announce the introduction of an Add-On course titled "Mushroom Cultivation" for the academic year 2019-2020. This course aims to provide students with an in-depth understanding of mushroom cultivation techniques and their practical applications.

Details of the Add-On Course:

Course Duration: 3 months

Start Date: 16/07/2019

End Date: 29/10/2019

Time: 0 hr

Venue: Room 55

Registration Details

Last Date for Registration: 01/07/2019

Seats are limited, and admission to the course will be on a first-come, first-served basis. Interested students are encouraged to register at the earliest to secure their spot.

For any queries or additional information, please contact the course coordinator, Head, Department of Botany at the department office between 10:00 AM to 4:00 PM on weekdays.

Warm regards,

Head, Department of Botany

MAHATMA GANDHI COLLEGE

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

THIRUVNANTHAPURAM

ADD ON COURSE -2019-2020

LIST OF STUDENTS- MUSHROOM CULTIVATION

SL.NO	NAME OF STUDENT	CLASS/ SEMESTER
1	SANGEETHA UNNI	II PG
2	SREELEKSHMY SURESH S	II PG
3	UNNIMAYA U S	II PG
4	AMRITHA B	I PG
5	ANUPRIYA S	I PG
6	GAYATHRI B L	I PG
7	VYSHAK R NAIR	III UG
8	ANANDHU KRISHNAN RS	III UG
9	ANU MOL BINU	III UG
10	ARAVIND PS	III UG
11	ARIYA NANTHA SJ	III UG
12	ASWATHY K	III UG
13	FATHIMA SS	III UG
14	GANGA MS	III UG
15	JEEVA MURUKESH	III UG
16	KRISHNA GS	III UG
17	PRIYA NM	III UG
18	RESHMI KL	III UG
19	SUBIN B	III UG
20	ANJANA S S	III UG
21	NEERAJA A S	III UG
22	VARSHA SATHYAN	II UG
23	VYSHNAV V L	II UG
24	YADHU KRISHNAN R L	II UG
25	ABHIJITH KUMAR A B	II UG
26	ABHIRAMI R S	ПUG
27	AMAL G KRISHNAN	II UG
28	ANANDITA D	II UG

29	APARNA B	H UG
30	APARNA S B	II UG
31	LEKSHMI SS	ПUG
32	SREELEKSHMI PS	ПUG
32		ПUG
	KAVYA T NAIR	II UG
34	DHANA KRISHNA RR	II UG
35	REVATHY SEKHAR	II UG
36	BINDUJA B JAYAN	I UG
37	ABHIRAMI AR	I UG
38	AKHILA BS AMAL V	I UG
39 40	ANJIMA BINOJ	I UG
	ANUJA.T.L	I UG
41 42	ARYA MOHAN	I UG
43	ASWANI NIMA NAIR	IUG
44	ATHIRA N	I UG
45	GAYATHRI JAYAKUMAR.S	IUG
46	GOKUL AS	IUG
47	GREESHMA GS NAIR KAILAS NATH H	IUG
48		I UG
49	MANJIMA KRISHNAN R NIKHITHA VIJAYAN.V.S	I UG
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HEAD OF THE DEPARTMENT

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PRINCIP Ł

MAHATMA GANDHI COLLEGE, THIRUVNANTHAPURAM

POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

ADD ON COURSE - 2019 - 2020

ATTENDANCE OF STUDENTS - MUSHROOM CULTIVATION

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5	ANUPRIYA S	I PG	×	+	4	X	×	+	~~~	x	+	+
6	GAYATHRI B L	I PG	+	+	4	ab	×	×	*	Rb	+	×
7	VYSHAK R NAIR	III UG	X	+	+	×	x	×	+	×	+	×
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10	ARAVIND PS	III UG	×	+	4	x	x	×	ab	×	+	×
11	ARIYANANTHA S J	III UG	F	+	+	x	×	X	×		T ×	×
12	ASWATHY K	III UG	*	+	+	X	×	×	×	×	+	*
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18	RESHMI K L	III UG	7	+	*	7	*	X	A	×	+	X
19	SUBIN B	III UG	+	+	4	f	+	2	F	Ah	+	Rb
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21	NEERAJA A S	III UG	+	+	*	4	+	×		4	+	×
22	VARSHA SATHYAN	II UG	4	4	*	ab	*	×	A	L	4	+

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POST GRADUATE DEPARTMENT AND RESEARCH CENTRE OF BOTANY

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12	ASWATHY K	III UG	*	+	+	X	×	×	*	×	*	*
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28	ANANDITA D	II UG	+	x	x	x	×	Rb	x	×	X	×
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MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT & RESEARCH CENTRE OF BOTANY ADD ON COURSE- MUSHROOM CULTIVATION

QUESTION PAPER

2019-2020 Academic year

Duration: 1 hr

Marks: 30

PART A - (Answer any 5; 2 marks each = 10 marks)

- 1. Differentiate between edible and poisonous mushrooms.
- 2. Name three common Indian mushrooms.
- 3. What are the main categories of mushrooms mentioned in the course?
- 4. Briefly describe the importance of spawn making in mushroom cultivation.
- 5. What is the role of substrate preparation in mushroom cultivation?
- 6. Explain the common Indian mushrooms and their significance in local cuisine.
- 7. Describe the systematic position, and distribution, of Agaricus and Pleurotus mushrooms.

PART B - (Answer any 3; 10 marks each = 30 marks)

- 8. Elaborate on the structure of Agaricus.
- 9. Provide a detailed explanation of the maintenance and harvesting stages in mushroom cultivation.
- 10. Explain the processing methods and their importance in mushroom preservation.
- 11. Discuss the history and introduction of both edible and poisonous mushrooms. Provide examples of each.
- 12. Discuss the nutritional value, medicinal value, and advantages of different types of mushrooms.

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SL.NO	NAME OF STUDENT	CLASS/ SEMESTER	MARK	SIGNATURE
1	SANGEETHA UNNI	II PG	18	200
2	SREELEKSHMY SURESH S	II PG	24	Stortelan
3	UNNIMAYA U S	II PG	22	Oncomayos
4	AMRITHA B	I PG	20	Amp
5	ANUPRIYA S	I PG	19	1 Am
6	GAYATHRI B L	I PG	17	hap
7	VYSHAK R NAIR	III UG	22	Vysaakh-
8	ANANDHU KRISHNAN R S	III UG	21 -	Anandholm
9	ANUMOL BINU	III UG	26	1 Danimal
10	ARAVIND PS	III UG	23	skaing.
11	ARIYANANTHA S J	III UG	24	anjanan
12	ASWATHY K	III UG	08	tutiky
13	FATHIMA S S	III UG	19	Fathing
14	GANGA M S	III UG	21	changa
15	JEEVA MURUKESH	III UG	25	Jeans
16	KRISHNA G S	III UG	20	Km Think
17	PRIYAN M	III UG	19	Payton
18	RESHMI K L	III UG	23	Lestin
19	SUBIN B	III UG	26	Subre 11-
20	ANJANA S S	III UG	28	Anjana
21	NEERAJA A S	III UG	18	Alexa Mi
22	VARSHA SATHYAN	II UG	16	Varsher.
23	VYSHNAV V L	II UG	15	· Jundarali
24	YADHU KRISHNAN R L	II UG	06	Hadlan
25	ABHIJITH KUMAR A B	II UG	28	Alahuyetta
26	ABHIRAMI R S	II UG	22	Alman
27	AMAL G KRISHNAN	II UG	21	dia .
28	ANANDITA D	II UG	04	a fil

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29	APARNA B	II UG	18	atternate
30	APARNA S B	H UG	21	. WATLOOKAND
31	LEKSHMLS S	II UG	22	Ar
32	SREELEKSHMI P S	II UG	25	Obneu_
33	KAVYA T NAIR	II UG	27	Kamp
34	DHANA KRISHNA R R	II UG	23	Charlen
35	REVATHI SEKHAR	- II UG	24	Drather.
36	BINDUJA B JAYAN	11 UG	20	Printer
37	ABHIRAMI A R	1 UG	18	Convent.
38	AKHILA B S	1 UG	19	Attule
39	AMAL V	1 UG	05	male
40	ANJIMA BINOJ	TUG	25	Angine
41	ANUJA.T.L	1 UG	27	ANUSA
42	ARYA MOHAN	1 UG	21	Addaha
43	ASWANI NIMA NAIR	1 UG	18	Agoani
44	ATHIRA N	1 UG	06	Athins
45	GAYATHRI JAYAKUMAR.S	1 UG	21	Cayadan
40	GOKUL A S	1 UG	20	Lichel
47	GREESHMA G S NAIR	1 UG	24	Greestinon
48	KAILAS NATH H	1 UG	26	Kailes-
49	MANJIMA KRISHNAN R	1 UG	20	N/anjino
50	NIKHITHA VIJAYAN.V.S	1 UG	28	Delehan

HEAD OF THE DEPARTMENT

PRINCIPAL

MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM Re-accredited with B+ Gade by NAAC DEPARTMENT OF BOTANY
CERTIFICATE This is to certify that of
has successfully completed Add on Course in "" offered by
Department of Botany , Mahatma Gandhi College, TVPM during the academic year
Head of the Department Principal

Mushroom Cultivation Add-on Course Report

Academic Year: 2019-2020

The Department of Botany, in a bid to blend conventional education with real-world applications, rolled out an add-on course focused on mushroom cultivation. Designed for both Undergraduate and Post Graduate students, this 30-hour course was more than just an educational endeavor. It aimed to inculcate a scientific mindset and foster a sense of civic duty among students. The program reflects the department's unwavering commitment to a rounded educational experience. Dr. Remya Krishnan, an Assistant Professor from the Department of Botany at NSS College, Cherthala, Alappuzha, led the course. Alongside her, various faculty members enriched the course, bringing their unique expertise to the sessions.

Initiated on a Saturday, the course spanned across several working days, with sessions arranged flexibly either before or after standard college timings. During the first session, Dr. Remya Krishnan provided students with an overview of the vast domain of mushroom cultivation and the cutting-edge research in this area. Her approach was highly interactive, eliciting enthusiastic responses from the students.

The curriculum that followed delved deep into mushroom cultivation techniques, tools, and terminologies. Students were introduced to innovative methodologies and the cultural importance of mushroom cultivation. Ensuring an interactive environment, the course encouraged students to voice their questions, with many intrigued about cultivating mushrooms in their personal spaces. To ensure retention and understanding, review sessions were interspersed within the course. These sessions, filled with engaging interactions, were instrumental in reinforcing the students' learning.

To mark the end of the course, certificates were distributed, recognizing the students' efforts and their successful completion of the course. To sum it up, the mushroom cultivation add-on course stands as evidence of the Botany Department's dedication to ensuring students get both theoretical knowledge and hands-on experience.

MAHATMA GANDHI COLLEGE THIRUVANANTHAPURAM

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ADD ON COURSE MUSHROOM CULTIVATION COURSE STRUCTURE AND SYLLABUS

BY

POST GRADUATE DEPARTMENT &

RESEARCH CENTRE OF BOTANY

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(2018 onwards)

OBJECTIVES OF THE COURSE

- Understanding Mushroom Biology: Studying mushroom cultivation involves gaining a deep understanding of the biology, life cycle, and growth requirements of different mushroom species.
- Cultivating Edible Mushrooms: One of the main objectives of studying mushroom cultivation is to produce edible mushrooms for consumption and commercial purposes. This involves learning about the specific cultivation techniques, substrate preparation, spawn production, and environmental conditions required for different mushroom species.
- Disease Management: Studying mushroom cultivation includes researching and developing strategies for the prevention and management of diseases that can affect mushroom crops. This objective focuses on understanding common pathogens, identifying disease-resistant strains, implementing proper sanitation practices, and exploring alternative disease control methods.
- Economic Viability and Market Development: This objective includes conducting market research, evaluating consumer preferences, analyzing production costs, and exploring value-added product development to support successful commercialization and entrepreneurship in the mushroom industry.



EXPECTED OUTCOMES OF THE COURSE

- Increased Knowledge and Understanding: Studying mushroom cultivation leads to a deeper understanding of mushroom biology, cultivation techniques, and the factors influencing mushroom growth and development.
- Improved Cultivation Techniques: Through research and study, new and improved cultivation techniques can be developed. Improved techniques can result in higher yields, better quality mushrooms, and more efficient production processes.
- Enhanced Disease Management Strategies: Research on mushroom cultivation helps in identifying and developing effective strategies for disease prevention, early detection, and management.
- Sustainable Cultivation Practices: Studying mushroom cultivation promotes the development and adoption of sustainable practices. This includes exploring alternative and renewable substrates, implementing recycling and waste management strategies, minimizing the use of synthetic inputs, and reducing the environmental footprint of mushroom cultivation.
- Increased Commercial Viability: By improving cultivation techniques, optimizing production processes, and developing marketable products, the profitability and competitiveness of mushroom farming can be enhanced. This benefits farmers, entrepreneurs, and the overall mushroom industry.

6

Training and Education Opportunities: Studying mushroom cultivation creates opportunities for training programs, workshops, and educational resources.

COURSE STRUCTURE

DURATION: 30 HrsASSESSMENT & CERTIFICATION: The trainee will be tested for his skill, knowledgeand attitude during the period of training and at the end of the training programme includingpractical examinations.

MUSHROOM CULTIVATION

SYLLABUS

(Total 30 hrs)

History and introduction of Edible and Poisonous mushrooms. 7

> Common Indian mushrooms.

Systematic position, morphology, distribution, structure of Agaricus and Pleurotus.

MODULE- II

Nutritional value, medicinal value and advantages- types- milky, straw, button and poisonous mushrooms

Production level, economic return, Foreign exchange from Mushroom cultivating countries and ≻ international trade.

MODULE-III

> Cultivation of Paddy straw mushroom, Oyster mushroom, white button mushroom and milky mushrooms

Spawn making, Substrate preparation, Maintenance and Harvesting \triangleright

➤ Composting

MODULE-IV

> Diseases- Common pests, disease prevention and control measures- Agaricus, Pleurotus and Volverilla.

Processing and storage of mushrooms 7

Field Study: Visit to a mushroom cultivating Laboratory and handson training for processing.

MODULE-I

ter a

(5 hrs)

(10 hrs)

(10 hrs)

(5 hrs)