



Govt. College for Women
(AUTONOMOUS) - GUNTUR. 1942 (Estd.)
College with Potential for Excellence

DEPARTMENT OF MICROBIOLOGY



A Certificate course in
MILKY MUSHROOM CULTIVATION
From 04-12-2019 to 25-01-2020



Govt. College for Women
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DEPARTMENT OF MICROBIOLOGY

A CERTIFICATE COURSE IN MILKY MUSHROOM CULTIVATION

About the certificate course: The course focus to provide self employment to students empowering them with the right knowledge to make their own Mushroom Making unit.

OUTCOMES OF CERTIFICATE COURSE: At the end of the course the student will

- To enhance skills in mushroom house management.
- To improve ability to harvest mushrooms and handle them post-harvest to maintain quality.
- To empower individuals to start their own milky mushroom cultivation entrepreneurship.

The course is designed and developed by the course coordinator and the following faculty taught the course

Dr. N. Praveena kumara

Dr. K.Sucharitha

Smt.M.Lakshmi hima bindhu

Course Details:

- Number of Participants:
- Duration of the course: 30 hours

Criteria of Assessment

- Summative: At the end of the course.

Number of Credits: 2

Eligibility Criteria to get the certificate

- 75 % attendance
- Attending both Formative and Summative Assessment.
- Securing minimum of 40% marks.

Timings: 4 PM TO 5 PM

Venue: Microbiology Lab, Government Women's college, Guntur.

Course starting date: 04-12-2019

Course ending date: 25-01-2020

Milky mushroom cultivation

(Certificate course 30 hrs.)

SYLLABUS

Objectives of the Course:

- Introduce participants to the biology, nutritional benefits, and market demand for milky mushrooms.
- Demonstrate techniques for substrate preparation, spawn production, and inoculation and provide guidelines for designing and managing mushroom house.
- Educate participants on disease and pest management strategies specific to milky mushroom cultivation.
- Train participants in harvesting techniques and post-harvest handling practices to maintain mushroom quality.

Unit I

Introduction to mushrooms and mushroom cultivation. History and Scope of mushroom cultivation. Mushroom biology including Taxonomical rank, life cycle, Vegetative characters; Edible and Poisonous mushrooms

UNIT II

Planting material: Spawn culturing: techniques, media preparation, sterilization, equipments used, Laminar flow chamber, autoclave etc. Preparation of spawn, Pure culture, Mother spawn, Spawn production

UNIT III

Cultivation technique of Common edible mushrooms : Milky mushroom (*Calocybe indica*), Importance of mushrooms: Nutritional value of mushrooms and the mushroom recipes, Medicinal mushrooms and their use in industries Therapeutic aspects- antitumor effect

UNIT IV

Problems in mushroom cultivation - diseases, pests and nematodes, weed moulds and their management strategies.design and layout of mushroom farm. Marketing oppurtunities,marketing liabilities exploring local and national markets.

Reference:

1. Marimuthu, T. et al. (1991). Oster Mushroom. Department of Plant Pathology. Tamil Nadu Agricultural University, Coimbatore.
2. Nita Bhal. (2000). Handbook on Mushrooms. 2nd ed. Vol. I and II. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi
3. Pandey R.K, S. K Ghosh, 1996. A Hand Book on Mushroom Cultivation. Emkey Publications.
4. Pathak, V. N. and Yadav, N. (1998). Mushroom Production and Processing Technology. Agrobios, Jodhpur.

CERTIFICATE COURSE IN MILKY MUSHROOM CULTIVATION

Introduction:

The Certificate Course on Milky Mushroom Cultivation was conducted over a period of 30 hours with the aim of equipping participants with the knowledge and skills required to successfully cultivate milky mushrooms. The course was designed to cater to individuals interested in mushroom farming, providing them with insights and techniques essential for milky mushroom cultivation.

Aim:

To provide participants with a comprehensive understanding of milky mushroom cultivation techniques.

To equip participants with skills necessary for substrate preparation, spawn production, and mushroom house management.

To empower individuals with the knowledge and expertise to start their own mushroom cultivation businesses.

Objectives:

Introduce participants to the biology, nutritional benefits, and market demand for milky mushrooms.

Demonstrate techniques for substrate preparation, spawn production. Provide guidelines for designing and managing mushroom house.

Educate participants on disease and pest management strategies specific to milky mushroom cultivation.

Train participants in harvesting techniques and post-harvest handling practices to maintain mushroom quality.

Procedure:

The course comprised a series of lectures, demonstrations, hands-on activities. Participants were provided with course materials, manuals, and resources for further reading. Assessment methods include assignments, and a final exam where participants had to develop a milky mushroom cultivation plan for a hypothetical scenario.

Outcomes:

Participants gained a solid understanding of milky mushroom cultivation principles and techniques.

Enhanced skills in substrate preparation, spawn production, and mushroom house management. Increased awareness of disease and pest management strategies specific to milky mushroom cultivation.

Empowered individuals to start their own milky mushroom cultivation enterprises or integrate mushroom farming into existing agricultural practices.

Government College For Women (A), Guntur
Department Of Microbiology

Certificate Course On Organic Farming

STUDENTS ENROLLMENT LIST

S.No	Name of the student	Course
1.	G.ANURADHA	MZC
2.	P.BHARGAVI	MZC
3.	G.GAYATHRI	MZC
4.	V.GLORY	MZC
5.	N.HEMA PRIYANKA	MZC
6.	JOSHINA	MZC
7.	M.MEGHANA	MZC
8.	CH.NIKITHA	MZC
9.	M.NAGAVENI	MZC
10.	G.PAVANI	MZC
11.	M.PUSHPALATHA	MZC
12.	G.PRASHANTHI	MZC
13.	K.REVARHI	MZC
14.	SK.RUKHIYYA	MZC
15.	A.SUSHMA	MZC
16.	B.SAILAJA BAI	MZC
17.	G.SAMYUKTHA	MZC
18.	Y.SHRUTHI	MZC
19.	Y.SISRISHA	MZC
20.	J.SMILY SUSHRITHA	MZC
21.	E.BHAVANI	MZC
22.	B.SRI CHANDANA	MZC
23.	V.VENKATA KRISHNA	MZC
24.	P.KEERTHI	MZC
25.	D.LAVANYA	MZC

26.	R.PARVATHI	MZC
27.	P.SRAVANI	MZC
28.	Y.SWAPNA	MZC
29.	V.SWAPNA	MZC
30.	M.SOWMYA	MBC
31.	S.RANI	MBC
32.	J.DEVAMMA	MBC
33.	Y.RACHEL	MBC
34.	P.DIVYA	MBC
35.	Ch.Therisa	MBC
36.	V.GAYATHRI POOJITHA	MBC
37.	V.KRISHNA VENI	MBC
38.	S.SRUTHI	MBC

S.No	Name of the student	Course
39.	B.ROJA RANI	MBC
40.	K.SUKANYA	MBC
41.	D.BHAVANI BAI	MBC
42.	R.KAVITHA	MBC
43.	R.DURGA BAI	MBC
44.	K.BHARATHI	MBC
45.	K.KEERTHANA	MBC
46.	S.SHOBHANA	MBC
47.	P.SOMA DHANUM	MBC
48.	CH.VIJAYA KUMARI	MBC
49.	G.SAMPOORNA	MBC
50.	N.BHARGAVI	MBC
51.	M.SRI LAKSHMI	MBC
52.	D.ANUHYA	MBC
53.	SK.FARIDHA BHANU	MBC
54.	B.NAGAMANI	MBC
55.	P.PRASANNA	MBC

Government College For Women (A), Guntur

Department Of Microbiology

Certificate Course On Organic Farming

AWARD LIST

S.No	Name of the student		Marks(50)	Attendance 30 days
1.	G.ANURADHA	MZC	46	26
2.	P.BHARGAVI	MZC	44	23
3.	G.GAYATHRI	MZC	40	27
4.	V.GLORY	MZC	40	25
5.	N.HEMA PRIYANKA	MZC	38	21

6.	JOSHINA	MZC	38	28
7.	M.MEGHANA	MZC	38	25
8.	CH.NIKITHA	MZC	36	23
9.	M.NAGAVENI	MZC	40	24
10.	G.PAVANI	MZC	40	27
11.	M.PUSHPALATHA	MZC	40	21
12.	G.PRASHANTHI	MZC	38	26
13.	K.REVARHI	MZC	42	29
14.	SK.RUKHIYYA	MZC	44	22
15.	A.SUSHMA	MZC	40	24
16.	B.SAILAJA BAI	MZC	40	27
17.	G.SAMYUKTHA	MZC	40	20
18.	Y.SHRUTHI	MZC	38	23
19.	Y.SISRISHA	MZC	36	26
20.	J.SMILY SUSHRITHA	MZC	38	23
21.	E.BHAVANI	MZC	42	21
22.	B.SRI CHANDANA	MZC	36	22
23.	V.VENKATA KRISHNA	MZC	38	24
24.	P.KEERTHI	MZC	38	26
25.	D.LAVANYA	MZC	42	21
26.	R.PARVATHI	MZC	40	20
27.	P.SRAVANI	MZC	40	23
28.	Y.SWAPNA	MZC	46	21
29.	V.SWAPNA	MZC	40	22
30.	M.SOWMYA	MBC	40	26
31.	S.RANI	MBC	39	20
32.	J.DEVAMMA	MBC	42	24
33.	Y.RACHEL	MBC	40	23
34.	P.DIVYA	MBC	38	27
35.	Ch.Therisa	MBC	45	22
36.	V.GAYATHRI POOJITHA	MBC	39	26
37.	V.KRISHNA VENI	MBC	43	21
38.	S.SRUTHI	MBC	40	25
39.	B.ROJA RANI	MBC	37	21
40.	K.SUKANYA	MBC	42	22
41.	D.BHAVANI BAI	MBC	44	24
42.	R.KAVITHA	MBC	38	21
43.	R.DURGA BAI	MBC	36	20
44.	K.BHARATHI	MBC	44	26
45.	K.KEERTHANA	MBC	47	27
46.	S.SHOBHANA	MBC	39	24
47.	P.SOMA DHANUM	MBC	44	23
48.	CH.VIJAYA KUMARI	MBC	47	21
49.	G.SAMPOORNA	MBC	41	20
50.	N.BHARGAVI	MBC	39	21
51.	M.SRI LAKSHMI	MBC	42	22
52.	D.ANUHYA	MBC	45	25
53.	SK.FARIDHA BHANU	MBC	36	20
54.	B.NAGAMANI	MBC	43	27
55.	P.PRASANNA	MBC	46	23





GOVERNMENT COLLEGE FOR WOMEN (A)

GUNTUR, ANDHRA PRADESH

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE COURSE

This is to certify that Ms _____ of II B.Sc. Botany Microbiology Chemistry has successfully completed a Certificate course in ORGANIC FARMING conducted by the Department of Microbiology from 22-01-2019 to 28-02-2019 and fulfilled all prerequisites as per UGC norms, for award of credits.

Course Coordinator

Incharge of Department

Principal

Certificate course-2018-19

Examination on Organic farming

I. Answer all the questions

25x2=50M

1. What is the primary principle behind organic farming?
2. Define organic farming in one sentence.
3. Name one key aspect of organic farming that distinguishes it from conventional farming.
4. What are the basic practices of organic farming?
5. Explain the significance of soil health in organic farming.
6. What role do cover crops play in organic farming?
7. How does organic farming contribute to biodiversity conservation?
8. Name a natural method used in organic farming to control pests.
9. How does organic farming reduce environmental pollution compared to conventional farming?
10. Define composting and its importance in organic farming.
11. What is crop rotation, and why is it essential in organic farming?
12. Explain the concept of integrated pest management (IPM) in organic farming.
13. How does organic farming contribute to the reduction of greenhouse gas emissions?
14. What are the regulations governing organic farming practices?
15. Name one disadvantage of relying solely on organic farming methods.
16. How does organic farming promote healthier food consumption?
17. What is the role of organic certification in ensuring the integrity of organic products?
18. Explain the term "biodynamic farming" and its relationship with organic farming.
19. How does organic farming enhance soil fertility?
20. Name one common weed control method used in organic farming.
21. What are the benefits of using organic fertilizers over synthetic ones?
22. How does organic farming support sustainable agriculture?
23. Define "organic residue" in the context of organic farming.

Attendance of Certificate Course "Biofertilizers and organic farming"

2018-19

Sl. No.	Name	2018-19										2019-20									
		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
34	P. Divya	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	Ch. Therissa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	V. Gayatri pojjitha	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	V. Harishaveni	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	G. Saurthi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	B. Raja Rani	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	N. Sakanya	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	D. Bhavani Bai	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	R. Kavitha	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	R. Durga Bai	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	N. Bhavathi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	K. Keerthana	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	Shobhana	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	P. Soma Dasum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	Ch. Vijaya Kumari	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	G. Samparna	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	N. Bhagavi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	M. Sai Lakshmi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	D. Anurag	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
53	Sk. Faniha bano	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
54	B. Nagamani	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
55	P. padanna	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Total Present: 55
Total Absent: 0
Total: 55