

SREE AYYAPPA COLLEGE

**ERAMALLIKKARA, CHENGANNUR, ALAPPUZHA DISTRICT
Kerala**

**(GOVT. AIDED COLLEGE AFFILIATED TO THE UNIVERSITY OF
KERALA)**



DEPARTMENT OF BIOCHEMISTRY & INDUSTRIAL MICROBIOLOGY

REPORT OF

CERTIFICATE COURSE-MUSHROOM CULTIVATION & POST HARVESTING TECHNOLOGY (SDC 003)

2019-20

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**Sree Ayyappa College, Eramallikkara,
Chengannur, Alappuzha- 689 109**

A meeting is scheduled on 01/11/2019 at 11.00 AM in Principal' chamber to discuss the skilled course organized by Department of Biochemistry & Industrial Microbiology for this academic year as per the DLMC meeting held on 31/10/2019 and the following decisions were made.

Minutes of the Meeting

It is decided to conduct a Skill based Certificate Course on Mushroom Cultivation and Post Harvesting Technology (SDC 003) during the month of December 2019 based on the discussion with Principal on 01/11/2019. The duration of the course will be 35 hours. Dr.Nitha.B, HOD, Biochemistry & Industrial Microbiology will be the Course Co-ordinator Dr.Ganga.G, Assistant Professor in Microbiology & Dr. Rejiya.C.S, Assistant Professor, Biochemistry will help in Course design and implementation. The syllabus will be designed and submitted within 10 days. A Part of training and field visit on will be done with the technical support at Central Plantation Crops Research Institute (CPCRI), Kayakulam.

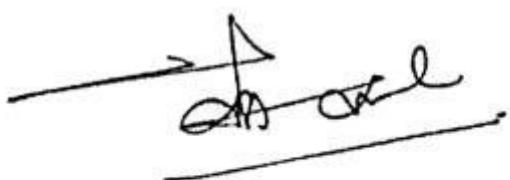
Members Present

Dr.K.S. Anil Kumar (Principal)

Dr.Nitha.B, HOD, Biochemistry & Industrial Microbiology

Dr.Ganga.G, Assistant Professor, Microbiology

Dr.Rejiya C.S, Assistant Professor, Biochemistry



PRINCIPAL
PRINCIPAL
Sree Ayyappa College (T.D.B)
Eramallikkara - 689 109
Thiruvanvandoor, Chengannur
Alappuzha Dist, Kerala

**Sree Ayyappa College, Eramallikkara,
Chengannur, Alappuzha- 689 109**

NOTICE

Department of Biochemistry & Industrial Microbiology, Sree Ayyappa College is organizing a Skill Oriented Certificate Course having 35 hours Mushroom Cultivation & Post Harvesting Technology (SDC003) from 19/12/2019 onwards. Interested candidates are directed to contact Dr. Nitha.B, HOD, Department of Biochemistry & Industrial Microbiology for further details.



PRINCIPAL
Sree Ayyappa College (T.D.B)
Eramallikkara - 689 109
Thiruvanvandoor, Chengannur
Alappuzha Dist, Kerala

SREE AYYAPPA COLLEGE, ERAMALLIKKARA.CHENGANNUR-689 109

Phone: 04792427615, sreeayyappacollege@gmail.com

DEPARTMENT OF BIOCHEMISTRY & INDUSTRIAL MICROBIOLOGY

**CERTIFICATE COURSE IN MUSHROOM CULTIVATION & POST HARVESTING
TECHNOLOGY-SDC 003**

Mushroom cultivation can help to reduce vulnerability to poverty and strengthens livelihoods through the generation of a fast yielding and nutritious source of food and a reliable source of income. As it does not require access to land, the cultivation is viable and attractive. Mushroom cultivation is not only a source for nutritious protein-rich food; it can also contribute to the production of effective medicinal products. It is an eco-friendly agricultural practice in the efficient utilization of agricultural and industrial waste. It can also play a significant role in generating self-employment opportunity. Considering the significance of mushroom cultivation the department is offering a certificate course in mushroom cultivation for the under graduate students. In addition to theory classes the course is providing hands-on trainings, seminars, assignments and field visits.

Aim of the Course

- Enable the students to identify edible and poisonous mushrooms.
- Provide hands on training for the preparation of bed for mushroom cultivation and spawn production.
- Give the students exposure to the experiences of experts and functioning mushroom farms
- Help the students to learn a means of self-employment.

Duration of the Course: 35 Hours

COURSE ASSESSMENT

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. Certificates will be issued to students on successful completion of the course.

**SKILL DEVELOPMENT CERTIFICATE COURSE ON MUSHROOM
CULTIVATION & POST HARVESTING TECHNOLOGY-SDC003**

SYLLABUS CONTENT WITH TIME STRUCTURE

Terminal Competency

After successful completion of training, the person will be able to: -
To produce different kind of mushrooms

Course code: MCPT01

Duration: 35 Hours

COURSE OBJECTIVES:

- Enable the students to identify edible and poisonous mushrooms
- Provide hands on training for the preparation of bed for mushroom cultivation and spawn production
- Give the students exposure to the experiences of experts and functioning mushroom farms
- Help the students to learn a means of self-employment and income generation

COURSE OUTCOME:

By successfully completing the course, students will be able to:

- Identify edible types of mushroom
- Gain the knowledge of cultivation of different types of edible mushrooms and spawn production
- Manage the diseases and pests of mushrooms
- Learn a means of self-employment and income generation

Detailed Syllabus:

<i>Practical</i>	Hours	<i>Theory</i>	Hours
Selection and Processing of straw for bed preparation	1	Knowledge of General Safety, health and hygiene Importance of Mushroom, scope, past, present status & future prospects.	2
Sterilization process practice	2	Pros & cons in Mushroom cultivation: why the Mushroom cultivation? Problems in mushroom cultivation & its remedies.	1
Preparation of beds for cultivation of various mushrooms and its maintenance	2	Mushroom for health: ingredients in mushroom, i.e. Protein, Carbohydrate, Fiber, Fat, Vitamins, Minerals etc.	
Growing and Identification of viable Spawn	1	Types of Mushroom. Poisonous Mushroom.	2
		Cultivation of Paddy Straw Mushroom and ingredients used Oyster Mushroom Cultivation and ingredients used. Milky Mushroom Cultivation and ingredients used. Button Mushroom cultivation and ingredients used.	6
Post Harvesting care and processing Visit to Mushroom farms	4	Preservation of Mushroom. Economics of Mushroom cultivation	2
Training/Internship	10		15
Total Hours	20		15
Total Hours of the Course			35

References

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.
5. Tewari Pankaj Kapoor, S. C. (1988). Mushroom Cultivation. Mittal Publication, New Delhi.
6. Tripathi, D.P. (2005) Mushroom Cultivation, Oxford & IBH Publishing Co. PVT.LTD, New Delhi.

COURSE CO-ORDINATOR

Dr.Nitha.B, Asst professor & Head Biochemistry & Industrial Microbiology, Sree Ayyappa College, Eramallikkara

REQUEST TO CPCRI, KAYAMKULAM FOR TRAINING

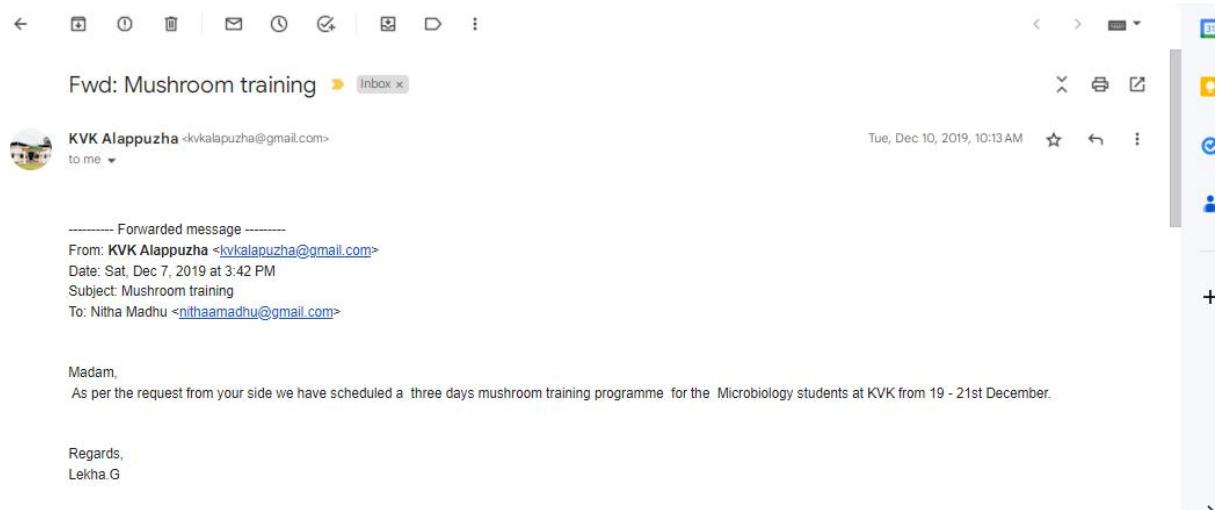


The screenshot shows a Gmail inbox with the search bar set to 'kvk'. The inbox list includes:

- Inbox (9,652): nithamadhu balan <nitha.balan@gmail.com> to KVVK on Oct 29, 2019, 12:10 PM. The email content is as follows:

Dear Sir,
Greetings...
The Department of Microbiology offers Sree Ayyappa College, offers a Certificate course on Mushroom Cultivation after getting training from the expertise of your esteemed Institution. As apart of it we would like to have a one day training and one day field visit for our students in collaboration with your organization. Kindly consider our request and do the needful. We will be grateful if you can schedule the classes after November 25th as their exams will start from November 13th.
Thanking you,
Yours faithfully
NithaTHA.B
HOD
- Drafts (10):
- Trash:
- Categories:
 - Social (59):
 - Updates (8,920):
 - Forums (180):
 - Promotions (9):

PERMISSION MAIL FROM CPCRI, KAYAKULAM FOR TRAINING



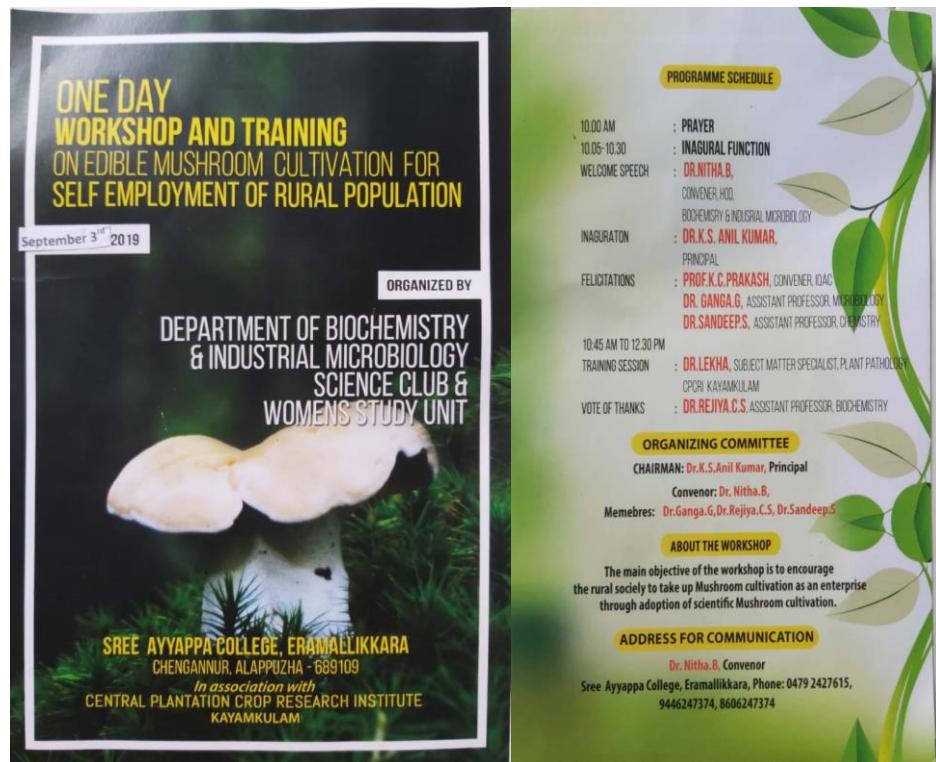
The screenshot shows an email in the inbox with the subject 'Fwd: Mushroom training' and the recipient 'KVVK Alappuzha <kvkalappuzha@gmail.com> to me'. The email content is as follows:

----- Forwarded message -----
From: KVVK Alappuzha <kvkalappuzha@gmail.com>
Date: Sat, Dec 7, 2019 at 3:42 PM
Subject: Mushroom training
To: Nitha Madhu <nithamadhu@gmail.com>

Madam,
As per the request from your side we have scheduled a three days mushroom training programme for the Microbiology students at KVVK from 19 - 21st December.

Regards,
Lekha G

Brochure of the workshop



Brochure of the Course



CERTIFICATE COURSE ON MUSHROOM CULTIVATION & POST HARVESTING TECHNOLOGY-SDC003
2019- 2020

Students list

SLNO	NAME
1	ABHIJITH R KUMAR
2	AMJITH R KUMAR
3	ARAVIND S
4	ASWATHY BALAKRISHNAN
5	SALINI S
6	SOUGANDH
7	SREELEKSHMI S
8	ABHIRAMI L R
9	AISWARYA. R
10	ALAN A N
11	AMRUHHTHA KRISHNAN G
12	ANANTHA NARAYANAN V
13	ARYA NARAYANAN
14	DIVYA MOL
15	GAYATHRI K
16	GEETHU MURUGESHAN
17	KAVYA K
18	NANDANA G UNNITHAN
19	PARVATHY
20	PARVATHY CHANDRABABU
21	RAMADATH K
22	RESHMIKRISHNA
23	SAFNA A.S
24	SILPANJALI S
25	SNEHAPRIYAN P
26	SUNAINA NAIR S. S
27	AKSHAY MURALEEDHARAN
28	AKSHARA RAJU
29	ANJU S S

SAMPLE REGISTRATION FORM


SREE AYYAPPA COLLEGE, ERAMALLIKARA
CHENGANNUR, ALAPPUZHA-689 1019, Phone: 04792427615,
sreeayyappacollege@gmail.com

DEPARTMENT OF BIOCHEMISTRY & INDUSTRIAL MICROBIOLOGY

**SKILL ORIENTED CERTIFICATE COURSE ON MUSHROOM CULTIVATION AND
POST HARVESTING TECHNOLOGY**

REGISTRATION FORM

PERSONAL DETAILS

Name: Divya Mol
Gender: Female DOB: 17-11-1998 Category: SC
Father/guardian Name: K. K. KESAVAN

CONTACT DETAILS

Address for Correspondence: KANIPARAMBIL, EDAYARANMULA,
EDAYARANMULA, P.O. ARANMULA,
PATIANAMTHITTA, 689532.

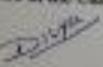
Contact No (fix): 9605883144 Mob: 9605883144
E-mail: divyaakkaniparambil125@gmail.com

ACADEMIC DETAILS

Name of the Institute/College: SREE AYYAPPA COLLEGE, ERAMALLIKARA
Name of the Course: B.Sc. Biochemistry and Name of the University: KERALA
INSTITUTE OF TECHNOLOGY
Marks obtained: 85 Maximum marks: 100
Overall Percentage: 85%

Declaration: I do hereby declare that the information submitted above is correct and true to the best of my knowledge.

Signature of the Candidate:



Attendance

SREE AYYAPPA COLLEGE DEPARTMENT OF BIOCHEMISTRY		ERAMALLIKKARA 8. INDUSTRIAL MICROBIOLOGY						
SKILL COURSE 2019-20		CULTIVATION & POST HARVESTING TECHNOLOGY						
CERTIFICATE COURSE ON MUSHROOM ATTENDANCE		5						
1	2	3	4	5	6	7	8	9
1. ABHIJITH R KUMAR	19/12/19	20/12/19	21/12/19	02/01/20	03/01/20	07/01/20	09/01/20	10/01/20
2. ANJITH R KUMAR	Present	Present	Present	a	Present	Present	Present	Present
3. ARVIND S	Present	Present	Present	Present	Present	Present	Present	Present
4. ASWATHY BALAKRISHNAN	Present	Present	Present	Present	Present	Present	Present	Present
5. SALINI S	Present	Present	Present	Present	Present	Present	Present	Present
6. SOUNDRAN	Present	Present	Present	Present	Present	Present	Present	Present
7. SREE LEKSHMI S	Present	Present	Present	Present	Present	Present	Present	Present
8. ABHIRAMI LR	Present	Present	Present	Present	Present	Present	Present	Present
9. AISWARYA R	Present	Present	Present	Present	Present	Present	Present	Present
10. ALAN AN	Present	Present	Present	Present	Present	Present	Present	Present
11. AMRUTHA KRISHNA L	Present	Present	Present	Present	Present	Present	Present	Present
12. ANANTHA NARAYANAN V	Present	Present	Present	Present	Present	Present	Present	Present
13. AYYA NARAYANAN	Present	Present	Present	Present	Present	Present	Present	Present
14. DIVYA MOL	Present	Present	Present	Present	Present	Present	Present	Present
15. GAYATHRI K	Present	Present	Present	Present	Present	Present	Present	Present
16. GEEETHU MURUGUNESAN	Present	Present	Present	Present	Present	Present	Present	Present
17. KAVYA K	Present	Present	Present	Present	Present	Present	Present	Present
18. NANDANA LUNNITHAN	Present	Present	Present	Present	Present	Present	Present	Present
19. PARVATHY	Present	Present	Present	Present	Present	Present	Present	Present
20. PARVATHY CHANDRA BABU	Present	Present	Present	Present	Present	Present	Present	Present
21. RAMDATH K	Present	Present	Present	Present	Present	Present	Present	Present
22. RESHMI KRISHNA	Present	Present	Present	Present	Present	Present	Present	Present
23. SAFNA A.S	Present	Present	Present	Present	Present	Present	Present	Present
24. SHILPANJALI	Present	Present	Present	Present	Present	Present	Present	Present
25. SNEHA PRIYAN	Present	Present	Present	Present	Present	Present	Present	Present
26. SUNDHA NAIR S.S	a	a	a	Present	Present	Present	Present	Present
27. AKSHAY MURALIDHARAN	a	a	a	Present	Present	Present	Present	Present
28. AKSHARA RAJU	a	a	a	Present	Present	Present	Present	Present
29. ANJU S.S	a	a	a	Present	Present	Present	Present	Present

Dr. NITHA B., PhD
Assistant Professor & Head
Department of Biochemistry & Industrial Microbiology
Sree Ayyappa College, Eramalikkara
Chengannur, Alappuzha District
Pin-691105, Kerala

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Pin-691105, Kerala

CERTIFICATE COURSE ON MUSHROOM ATTENDANCE		CULTIVATION & POST HARVESTING TECHNOLOGY						
1	2	3	4	5	6	7	8	9
1. ABHIJITH R KUMAR	10/01/2020	11/01/2020	05/02/2020	07/02/2020	09/02/2020	10/02/2020	11/02/2020	12/02/2020
2. ANJITH R KUMAR	Present	Present	Present	Present	Present	Present	Present	Present
3. ARVIND S	Present	Present	Present	Present	Present	Present	Present	Present
4. ASWATHY BALAKRISHNAN	Present	Present	Present	Present	Present	Present	Present	Present
5. SALINI S	Present	Present	Present	Present	Present	Present	Present	Present
6. SOUNDRAN	Present	Present	Present	Present	Present	Present	Present	Present
7. SREE LEKSHMI S	Present	Present	Present	Present	Present	Present	Present	Present
8. ABHIRAMI LR	Present	Present	Present	Present	Present	Present	Present	Present
9. AISWARYA R	Present	Present	Present	Present	Present	Present	Present	Present
10. ALAN AN	Present	Present	Present	Present	Present	Present	Present	Present
11. AMRUTHA KRISHNA L	Present	Present	Present	Present	Present	Present	Present	Present
12. ANANTHA NARAYANAN V	Present	Present	Present	Present	Present	Present	Present	Present
13. AYYA NARAYANAN	Present	Present	Present	Present	Present	Present	Present	Present
14. DIVYA MOL	Present	Present	Present	Present	Present	Present	Present	Present
15. GAYATHRI K	Present	Present	Present	Present	Present	Present	Present	Present
16. GEEETHU MURUGUNESAN	Present	Present	Present	Present	Present	Present	Present	Present
17. KAVYA K	Present	Present	Present	Present	Present	Present	Present	Present
18. NANDANA LUNNITHAN	Present	Present	Present	Present	Present	Present	Present	Present
19. PARVATHY	Present	Present	Present	Present	Present	Present	Present	Present
20. PARVATHY CHANDRA BABU	Present	Present	Present	Present	Present	Present	Present	Present
21. RAMDATH K	Present	Present	Present	Present	Present	Present	Present	Present
22. RESHMI KRISHNA	Present	Present	Present	Present	Present	Present	Present	Present
23. SAFNA A.S	Present	Present	Present	Present	Present	Present	Present	Present
24. SHILPANJALI	Present	Present	Present	Present	Present	Present	Present	Present
25. SNEHA PRIYAN	Present	Present	Present	Present	Present	Present	Present	Present
26. SUNDHA NAIR S.S	a	a	Present	Present	Present	Present	Present	Present
27. AKSHAY MURALIDHARAN	Present	Present	Present	Present	Present	Present	Present	Present
28. AKSHARA RAJU	Present	Present	Present	Present	Present	Present	Present	Present
29. ANJU S.S	Present	Present	Present	Present	Present	Present	Present	Present

Dr. NITHA B., PhD
Assistant Professor & Head
Department of Biochemistry & Industrial Microbiology
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Chengannur, Alappuzha District
Pin-691105, Kerala

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Chengannur, Alappuzha District
Pin-691105, Kerala

PHOTGRAPHS OF WORKSHOP



WORKSHOP ON MUSHROOM CULTIVATION IN ASSOCIATION WITH CPCRI

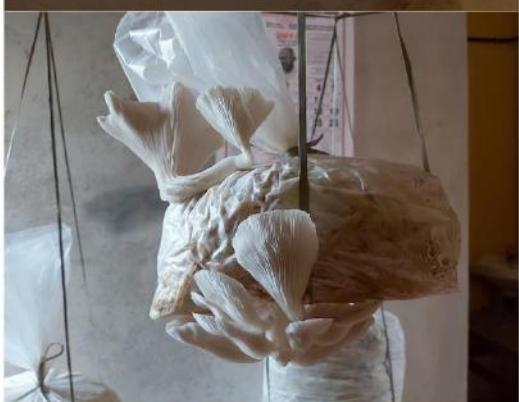
FIELD VISIT & TRAINING AT CPCRI, KAYAMKULAM



Practical sessions



MUSHROOM CULTIVATION AT COLLEGE



SUMMARY REPORT

The Department of Biochemistry & Industrial Microbiology organized a workshop on Mushroom Cultivation in collaboration with Central Plantation Crops Research Institute, IACR, Kayamkulam. Panchayath ward member Sr.Renjith inaugurated the programme. Dr.Lekha, Subject matter Specialist, Plant pathology, CPCRI handled the session on September 3rd 2019. After that workshop a proposal was submitted to CPCRI for conducting a certificate course on Mushroom cultivation and post harvesting technology. The certificate course on Mushroom Cultivation & Post harvesting technology started on 19/12/2019 with three day workshop cum field visit at CPCRI, Kayamkulam. The three day hands on training was conducted from 19/12/2019- 21/12/2019 at CPCRI ,Kayamkulam. During the training seminars were conducted on topics like importance of mushrooms, nutritional properties, spawn production and cultivation by Dr.Lekha, Subject matter Specialist, Plant pathology, CPCRI. After the training and field visit classes were conducted in college by faculties on different aspects of mushroom production. Practical sessions on sterilization, mushroom bed preparation, spawning, mushroom cultivation etc were conducted in college. Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. The classes were concluded by February 25th 2020. Exam for the course was conducted on 28th February 2020. Twenty nine students registered for the course and among that twenty four students completed the certificate course on Mushroom Cultivation.

OUT COME OF THE COURSE

After course completion students started a small scale mushroom production unit. They became familiar with all the aspects of mushroom production. After successful completion of the course students are skilled to start mushroom cultivation.

ASSESSMENT PROCEDURES

Question paper for the Exam

SREE AYYAPPA COLLEGE, ERAMALLIKKARA, CHENGANNUR,

ALAPPUZHA-689 109

**SKILL DEVELOPMENT CERTIFICATE COURSE ON MUSHROOM
CULTIVATION & POST HARVESTING TECHNOLOGY-SDC003**

Time: 3 hrs

Marks: 80

SECTION- A

I. Answer all questions in one word or two sentences. Each question carries one mark

1. What is blanching?
2. Write the scientific name of white button mushroom.
3. Name any one field mushroom.
4. Name any two poisonous mushrooms.
5. Give an example of medicinal mushroom
6. What is Spawn?
7. What is composting?
8. What is a substrate?
9. Give the name of any two edible mushrooms
10. What is the scientific name of milky mushroom or paddy straw mushroom?

(10 x 1= 10 marks)

SECTION- B

II. Answer any eight of the following; not to exceed one paragraph. Each question carries two marks.

11. What could be possible reason (s) for presence of contaminants in spawn/compost?
12. Narrate the harvesting of mushrooms.
13. Write a short note on field cultivation of mushroom.
14. Write a note on the nutritional value of mushrooms.
15. Write a note on freeze drying.
16. Comment on the medicinal value of mushrooms.
17. Give an account of poisonous mushrooms.
18. Write the systematic position of Agaricus.
19. Write a note on common Indian mushrooms.
20. Which are the bacterial diseases that affect mushrooms?
21. Write a note on pickling.
22. What are the advantages of mushroom cultivation?

(8X2=16marks)

SECTION C

III. Answer any six of the following; not to exceed 120 words. Each question carries four marks

23. Explain the Spawn preparation?
24. Draw and label different parts of Mushroom.
25. How would you differentiate between edible and poisonous mushrooms?
26. Write a short note on Food value of mushrooms.
25. What are the common diseases and pests found in mushrooms?
26. How mold infestation can be managed during Mushroom Cultivation?
27. Briefly explain the cultivation of white button mushroom.
28. Which are the steps involved in bed preparation.
29. Explain pre-treatment of substrate.
30. Write a note on foreign exchange from mushroom cultivation.
31. Draw labeled diagram of the life cycle of Mushroom.

(6X4=24 marks)

SECTION D

IV. Write an essay on any two of the following. Each question carries fifteen marks

32. Explain the distribution, structure and morphology of Agaricus.
33. What is the scientific name of Oyster mushroom? Discuss about the various steps in the cultivation of Oyster mushroom.
34. How mushrooms are stored? Explain the various steps in the processing of mushrooms.
35. Explain different substratum and their processing methods used in the cultivation of mushrooms.

(2X15=30 marks)

MARKLIST OF THE COURSE

**SREE AYYAPPA COLLEGE, ERA MALLIKKARA, CHENGANNUR,
ALAPPUZHA-689 109**

**SKILL DEVELOPMENT CERTIFICATE COURSE ON MUSHROOM
CULTIVATION & POST HARVESTING TECHNOLOGY-SDC003**

FINAL RESULT- 2019-20

SLNO	NAME	Training & Field visit	Exam	Practical	Total	Final result
1	ABHIJITH R KUMAR	5	52	15	72	Pass
2	AMJITH R KUMAR	5	50	15	70	Pass
3	ARAVIND S	5	57	15	75	Pass
4	ASWATHY BALAKRISHNAN	5	47	15	67	Pass
5	SALINI S	5	38	15	58	Pass
6	SOUGANDH	5	34	15	54	Pass
7	SREELEKSHMI S	5	62	15	82	Pass
8	ABHIRAMI L R	5	40	15	60	Pass
9	AISWARYA. R	5	41	15	61	Pass
10	ALAN A N	5	37	15	57	Pass
11	AMRUHHTHA KRISHNAN G	5	31	15	51	Pass
12	ANANTHA NARAYANAN V	Ab	38	15	53	Fail
13	ARYA NARAYANAN	5	33	15	53	Pass
14	DIVYA MOL	5	46	15	66	Pass
15	GAYATHRI K	5	50	15	70	Pass
16	GEETHU MURUGESHAN	5	30	15	50	Pass
17	KAVYA K	5	39	15	59	Pass
18	NANDANA G UNNITHAN	5	40	15	60	Pass
19	PARVATHY	5	59	15	79	Pass
20	PARVATHY CHANDRABABU	5	32	15	52	Pass
21	RAMADATH K	5	35	15	55	Pass
22	RESHMIKRISHNA	5	31	15	51	Pass
23	SAFNA A.S	5	42	15	62	Pass
24	SILPANJALI S	5	45	15	65	Pass
25	SNEHAPRIYAN P	5	30	15	50	Pass
26	SUNAINA NAIR S. S	Ab	56	15	71	Fail
27	AKSHAY MURALEEDHARAN	Ab	Ab	15	15	Fail
28	AKSHARA RAJU	Ab	Ab	15	15	Fail
29	ANJU S S	Ab	Ab	15	15	Fail

Dr.Nitha.B



Course Co-ordinator

CERTIFICATE OF TRAINING & FIELD VISIT



भा.कृ.अ.प - कृषि विज्ञान केन्द्र - आलप्पुच्चा
ICAR - KRISHI VIGYAN KENDRA -ALAPPUZHA
ICAR - CENTRAL PLANTATION CROPS RESEARCH INSTITUTE



Regional Station, Kayamkulam, Krishnapuram-690 533, Kerala

CERTIFICATE

This is to certify that Mr./Mrs./Ms. Sreelakshmi S, B.Sc. Biochemistry & Industrial Microbiology, Sri Ayyappa College ^{Changanassery} has attended the training programme on 'Mushroom - Cultivation Techniques' organized by the ICAR - Krishi Vigyan Kendra - Alappuzha, in collaboration

with/funded by _____ on/from 19.12.2019 to 21.12.2019

21.12.2019
Kayamkulam



भा.कृ.अ.प - कृषि विज्ञान केन्द्र - आलप्पुच्चा
ICAR - KRISHI VIGYAN KENDRA -ALAPPUZHA
ICAR - CENTRAL PLANTATION CROPS RESEARCH INSTITUTE



Regional Station, Kayamkulam, Krishnapuram-690 533, Kerala

CERTIFICATE

This is to certify that Mr./Mrs./Ms. Parvalley, B.Sc. Biochemistry & Industrial - Microbiology, Sri Ayyappa College ^{Changanassery} has attended the training programme on 'Mushroom - Cultivation Techniques' organized by the ICAR - Krishi Vigyan Kendra - Alappuzha, in collaboration

with/funded by _____ on/from 19.12.2019 to 21.12.2019

21.12.2019
Kayamkulam



Activate

CERTIFICATE OF COURSE COMPLETION



Dr. Nitha.B

Course Coordinator

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