

Date: 02/03/2022

To,
The Principal
K. K. Wagh College of Agriculture,
Nashik

Subject Regarding permission for Certificate Course.....

Respected Sir,

On behalf of the Department of Plant Pathology, we humbly request permission to initiate a Certificate course titled **Mushroom Production Technology**. This course is scheduled from 21/03/2022 to 26/03/2022 and will involve approximately ~~33~~ final-year students. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about advance techniques and practical skills in Production of Mushroom. We kindly ask for your approval for the implementation of this course.


Thanking You.

permissiy grantu

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2/3



Yours faithfully


(Dr. H. V. Deshmukh)
Course Coordinator



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Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra
College Code; 11135 AISHE Code: C-50690

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Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22

Syllabus Committee

Sr no	Name of teacher	Designation	Department	Role in course
1	Dr. H. V. Deshmukh	Assistant Professor	Plant Pathology	Course coordinator
2	Dr. P. R. Brahmane	Assistant Professor	Plant Pathology	Committee member
3	Prof. S. K. Ahirrao	Assistant Professor	Plant Pathology	Committee member
4	Miss S.D. Kharat	Technical Assitant	Plant Pathology	Committee member


Course Coordinator




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Date: 02/03/2022

Academic Year 2021-22
Department of Plant Pathology
Minutes of the Board of Studies Meeting for the Short-Term Certificate Course

A meeting of the Board of Studies for the Short-term Certificate Course in 'Mushroom Production Technology' was convened on 3 March 2022, at 12:00 PM in the Department of Plant Pathology. The meeting was attended by the following Syllabus Design Committee members:

Sr no	Name of the expert	Designation	Sign
1	Dr. S. M. Hadole	Principal	
2	Dr. H. V. Deshmukh	Course Coordinator	
3	Dr. P. R. Brahmane	Member	
4	Prof. S. K. Ahirrao	Member	
5	Miss S.D. Kharat	Member	

Minutes of Meeting

The Board of Studies convened a meeting on 3 March 2023, at 12:00 PM in the Department of Plant Pathology to address various aspects concerning the Short-Term Certificate Course in 'Mushroom Production Technology'. The meeting focused on the following key points:

- Syllabus Formation:** Members deliberated on developing a syllabus that emphasizes on relevant knowledge and skills in Mushroom Production.
- Dissemination of Work:** Strategies for effectively teaching the morphology and types of Mushrooms. were discussed to aid students in the course.
- Encouragement of Students:** The meeting stressed the importance of offering guidance and motivation to students. They are aware of the identification of edible and poisonous Mushrooms. Students will be able produce spawn on their own. Learned the prospects and scope of mushroom cultivation in small scale industry.
- Examination of Short-Term Course:** The examination structure and assessment methods for the short-term course were reviewed. The board explored ways to ensure fair and comprehensive evaluations that accurately assess students'

The meeting concluded with a commitment to refine the course and its delivery methods to better meet the needs of students enrolled in the Certificate Course in 'Mushroom Production Technology'.

Course coordinator



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Department of Plant Pathology

Certificate course in 'Mushroom Production Technology' Academic Year 2021-22

Syllabus Outcomes:

1. Gain awareness of historical and current perspectives of Mushroom Production.
2. Perform various methods of Harvesting & preservation of mushroom.
3. Acquire knowledge on Study of different diseases and pests of mushroom and their management.
4. Preparation of spawn & Cultivation of different types of mushroom.
5. Explore methods for Isolation, identification, maintenance and storage of pure cultures of mushrooms.
6. Examine the commercial aspects of Different recipies of mushroom.


Sr no	Topic	Description	No of Lectures
1	A Study on morphology of mushroom. Introduction to mushroom types	study the different parts of mushroom and their broad classification. different types of edible mushrooms and their important characters	03 hours
2	Nutritional and medicinal importance of mushroom Isolation, identification, maintenance and storage of pure cultures of mushrooms	nutritional & medicinal importance of mushrooms. Identify the pure culture of different mushroom types. Also to study their maintenance and storage.	03 hours
3	Preparation of spawn Cultivation of white button mushroom (Agaricus bisporus)	prepare master and commercial spawn. different steps involved in cultivation of button mushroom.	06 hours
4	Cultivation of oyster mushroom (Pleurotus spp.) Cultivation of paddy straw mushroom (Volvariella spp.)	requirements and different stepsn involved in cultivation of oyster mushroom & paddy straw mushroom.	06 hours
5	Harvesting & preservation of	stage and method of harvesting as well	06 hours




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	mushrooms. Study of different diseases and pests of mushroom and their management.	as different preservation techniques. most common biotic causes which adversely affects the productivity and quality of mushrooms are parasitic and antagonistic fungi; bacteria; viruses; nematodes; mites and insect pests.	
6	Economics of mushroom cultivation and preparation of bankable project.	economical aspects involved in mushroom cultivation and to prepare the project profile for financial assistance.	06 hours
7	Different recipies of mushroom.	1. Mushroom salad 2. Mushroom and pea curry 3. Mushroom curry 4. Mushroom omlette 5. Mushroom bhaji/pakodas 6. Mushroom soup 7. Mushroom pulao 8. Mushroom samosa 9. Mushroom pickle	06 hours
Total			36 hours


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Date:05/03/2022


Student Notice

All the students of B. Sc. (Hons.)Agriculture final year are informed that for the academic year 2021-22 the Certificate Course on 'Mushroom Production Technology' is starting from 21/03/2022to 26/03/2022. For this certificate course students should submit their names to the Certificate Course Coordinator Assistant Dr. H. V. Deshmukh. up to 15/03/2022.

Duration: 36 Hrs. 21/03/2022to 26/03/2022
Time: Morning Session: 10.00 am to 1.00 pm
Afternoon session: 2.00pm to 5.00 pm

Note: This course is free of cost to all students.


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Date:

Department of Plant Pathology
Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22

Enrolled Student List

SR NO	REGISTRATION NO.	NAME OF STUDENT
1.	AKN-2019/064	Kalhature Suyog Sanjay
2.	AKN-2019/065	Kawade Sanmeet Sachin
3.	AKN-2019/066	Kendre Siddheshwar Devidas
4.	AKN-2019/069	Kulkarni Disha Sunil
5.	AKN-2019/070	Kulkarni Ketan Pankaj
6.	AKN-2019/071	Labhade Pradip Sanjay
7.	AKN-2019/075	Medhane Sandesh Nivrutti
8.	AKN-2019/076	Mehendale Anant Subhash
9.	AKN-2019/077	More Rutuja Dipak
10.	AKN-2019/079	Muntode Sushil Lahanbhau
11.	AKN-2019/088	Patil Aditya Raosaheb
12.	AKN-2019/090	Patil Prachi Rambhau
13.	AKN-2019/091	Patil Pramod Chhotu
14.	AKN-2019/092	Patil Rachana Sanjay
15.	AKN-2019/094	PatilVarunraje Narendra
16.	AKN-2019/095	Patole Dhiraj Shantaram
17.	AKN-2019/097	Pawar Prajwal Baban
18.	AKN-2019/098	Pharate Omkar Shahaji
19.	AKN-2019/100	Pisal Karan Jaywant
20.	AKN-2019/104	Shaikh Jabi Sharif



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21.	AKN-2019/105	Shaikh Majid Asif
22.	AKN-2019/107	Shinde Shubhangi Bhausahab
23.	AKN-2019/108	Shisav Amol Satish
24.	AKN-2019/109	Sisodiya Mittal Viveksing
25.	AKN-2019/110	Solunke Kalpesh Gangadhar
26.	AKN-2019/114	Tarle Shriyog Subhash
27.	AKN-2019/115	Thakur Priyanka Nandkumar
28.	AKN-2019/116	Thombare Saurabh Uttam
29.	AKN-2019/121	Bankar Krishnakant Narayan
30.	AKN-2019/122	Chaudhari Amegha Madhav
31.	AKN-2019/124	Shelar Samruddhi Mahendra
32.	AKN-2019/125	Suryawanshi Divya Dnyaneshwar
33.	AKN-2019/126	Khairnar Lalit Kailas


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STUDENT REGISTRATION FORM

Academic Year: 2021-22
(Department of Plant Pathology)

CERTIFICATE COURSE

'Mushroom Production Technology'

For Department Use Only

Registration No.: AKN/2019/064.....

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Student ID:

Name of the Student: Kalhapure Suyog Sanjay.....

Mother's Name: Kalhapure Manisha Sanjay.....

Father's Name: Kalhapure Sanjay Kemu Year: 1st / 2nd / 3rd / 4th

E-Mail ID: Suyogkalhapure@gmail.com.....

Address: Khadambe, Tal - Rahuri.....

State: Maharashtra..... PIN Code: 413704.....

Mobile No: 9130812136..... Alternate contact number: 8888440705.....

Gender: Male Female Other Religion:

Date of Birth: 30/05/2001.....

Educational Qualification (at the time of admission):

HSC Other

Kalhapure
Signature of Student

Place: Nashik



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Department of Plant Pathology
Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22
Schedule of the course

Sr no	Topic	Description	Name of the teacher	Department
1	A Study on morphology of mushroom. Introduction to mushroom types	study the different parts of mushroom and their broad classification. different types of edible mushrooms and their important characters	Dr. H. V. Deshmukh	Plant Pathology
2	Nutritional and medicinal importance of mushroom Isolation, identification, maintenance and storage of pure cultures of mushrooms	nutritional & medicinal importance of mushrooms. Identify the pure culture of different mushroom types. Also to study their maintenance and storage.	Dr. P. R. Brahmane	Plant Pathology
3	Preparation of spawn Cultivation of white button mushroom (Agaricus bisporus)	prepare master and commercial spawn. different steps involved in cultivation of button mushroom.	Prof. S. K. Ahirrao	Plant Pathology
4	Cultivation of oyster mushroom (Pleurotus spp.) Cultivation of paddy straw mushroom (Volvariella spp.)	requirements and different stepsn involved in cultivation of oyster mushroom & paddy straw mushroom.	Prof. S. K. Ahirrao	Plant Pathology
5	Harvesting & preservation of mushrooms. Study of different diseases and pests of mushroom and their management.	stage and method of harvesting as well as different preservation techniques. most common biotic causes which adversely affects the productivity and quality of mushrooms are parasitic and antagonistic fungi; bacteria; viruses; nematodes; mites and insect pests.	Dr. P. R. Brahmane	Plant Pathology
6	Economics of mushroom cultivation and preparation of bankable project.	economical aspects involved in mushroom cultivation and to prepare the project profile for financial assistance.	Dr. H. V. Deshmukh	Plant Pathology
7	Different recipies of mushroom.	1. Mushroom salad 2. Mushroom and pea curry 3. Mushroom curry 4. Mushroom omlette 5. Mushroom bhaji/pakodas 6. Mushroom soup 7. Mushroom pulao 8. Mushroom samosa 9. Mushroom pickle	Dr. H. V. Deshmukh And Miss. S. D. Kharart	Plant Pathology


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Department of Plant Pathology
Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22

Time Table

Sr no	Date	Time		Topic
1	21/03/2022	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	A Study on morphology of mushroom. Introduction to mushroom types
2	22/03/2022	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Nutritional and medicinal importance of mushroom Isolation, identification, maintenance and storage of pure cultures of mushrooms
3	23/03/2022	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Preparation of spawn Cultivation of white button mushroom (Agaricus bisporus)
4	24/03/2022	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Cultivation of oyster mushroom (Pleurotus spp.) Cultivation of paddy straw mushroom (Volvariella spp.)
5	25/03/2022	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Harvesting & preservation of mushrooms. Study of different diseases and pests of mushroom and their management.
6	26/03/2022	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Economics of mushroom cultivation and preparation of bankable project. Different recipes of mushroom.


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K K WAGH COLLEGE OF AGRICULTURE, NASHIK
Department of Plant Pathology
Certificate course in 'Mushroom Production Technology'
Academic Year 2021-22

Sr no	Registration no	Name of students Date: Time:	21/03/2022		22/03/2022		23/03/2022		24/03/2022		25/03/2022		26/03/2022	
			10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00
1.	AKN-2019/064	Kalhapure Suyog Sanjay	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap	Kalhap
2.	AKN-2019/065	Kawade Sanmeet Sachin	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade	Kawade
3.	AKN-2019/066	Kendre Siddheshwar Devidas	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre	Kendre
4.	AKN-2019/069	Kulkarni Disha Sunil	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni
5.	AKN-2019/070	Kulkarni Ketan Pankaj	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni
6.	AKN-2019/071	Labhade Pradip Sanjay	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade	Labhade
7.	AKN-2019/075	Medhane Sandesh Nivrutti	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane	Medhane
8.	AKN-2019/076	Mehendale Anant Subhash	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale	Mehendale
9.	AKN-2019/077	More Rutuja Dipak	More	More	More	More	More	More	More	More	More	More	More	More
10.	AKN-2019/079	Muntode Sushil Lahanbhu	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode	Muntode
11.	AKN-2019/088	Patil Aditya Raosaheb	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
12.	AKN-2019/090	Patil Prachi Rambhau	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
13.	AKN-2019/091	Patil Pramod Chhotu	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
14.	AKN-2019/092	Patil Rachana Sanjay	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
15.	AKN-2019/094	Patil Varunraje Narendra	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
16.	AKN-2019/095	Patole Dhiraj Shantaram	Patole	Patole	Patole	Patole	Patole	Patole	Patole	Patole	Patole	Patole	Patole	Patole
17.	AKN-2019/097	Pawar Prajwal Baban	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
18.	AKN-2019/098	Pharate Omkar Shahaji	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate	Pharate
19.	AKN-2019/100	Pisal Karan Jaywant	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal
20.	AKN-2019/104	Shaikh Jabi Sharif	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh
21.	AKN-2019/105	Shaikh Majid Asif	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh
22.	AKN-2019/107	Shinde Shubhangi Bhausaheb	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
23.	AKN-2019/108	Shisav Amol Satish	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav	Shisav
24.	AKN-2019/109	Sisodiya Mittal Viveksing	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya	Sisodiya
25.	AKN-2019/110	Solunke Kalpesh Gangadhar	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke	Solunke
26.	AKN-2019/114	Tarle Shriyog Subhash	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle	Tarle
27.	AKN-2019/115	Thakur Priyanka Nandkumar	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur
28.	AKN-2019/116	Thombare Saurabh Uttam	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare
29.	AKN-2019/121	Bankar Krishnakant Narayan	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar
30.	AKN-2019/122	Chaudhari Amegha Madhav	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari
31.	AKN-2019/124	Shelar Samruddhi Mahendra	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar	Shelar
32.	AKN-2019/125	Suryawanshi Divya Dnyaneshwar	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi	Suryawanshi
33.	AKN-2019/126	Khaimar Lalit Kailas	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar	Khaimar

Course Coordinator



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Department of Plant Pathology

Certificate course in 'Mushroom Production Technology' Academic Year 2021-22

Examination Methodology

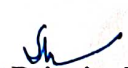
Sr no	Nature of exam	Marks
1	Written	30
2	Practical	20
3	Total	50

Reference:

- 1) TNAU Agritech Portal Nutrition. K. Ramamurthi, R. Geethalakshmi, Food: Nutritive Value; Health Benefits of Mushroom: Available from: http://agritech.tnau.ac.in/nutrition/nutri_health_mushroom.html
- 2) Calorie Bee. Rajan Singh Jolly, Nutritional Facts and Uses of Edible Mushrooms [Updated 2017 October 27]: Available from: <https://caloriebee.com/nutrition/All-About-MushroomsTypes-Facts-Tips-Uses-Recipes-Nutritional-And-HealthBenefits>
- 3) Mushrooms.ca. Mushrooms and Vitamin D: Available from: <https://www.mushrooms.ca/vitamin-d/>
- 4) USDA, United States Department of Agriculture, Agricultural Research Service, National Nutrient Database for Standard Reference Legacy Release [Release 2018 April]: Available from: <https://ndb.nal.usda.gov/ndb/foods/show/11260?fgcd=&manu=&format=Full&count=&max=25&offset=2600&sort=ndb&order=asc&qlookup=&ds=&qt=&qp=&qq=&qn=&q=&ing=>
- 5) Wikipedia, The Free Encyclopedia. Agaricus bisporus [edited 2018 November 8]: Available from: https://en.wikipedia.org/wiki/Agaricus_bisporus
- 6) Wikipedia, The Free Encyclopedia. Mushroom [edited 2018 September 25]: Available from: <https://en.wikipedia.org/wiki/Mushroom>
- 7) ICAR – Directorate of Mushroom Research, National Research Centre for Mushroom. R.D Rai, T.Arumuganathan, Post Harvest Technology of Mushrooms [Printed: 2008, 1000 Copies]: Available from: http://nrcmushroom.org/Bull_PHT.pdf


Course Coordinator




Principal

K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik



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College Code;11135 AISHE Code: C-50690

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Department of Plant Pathology
Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22

Student Result

Sr. No.	Registration no	Name of the students	Theory marks (30)	Practical Marks (20)	Mark Out of Total 50
1.	AKN-2019/064	Kalhapure Suyog Sanjay	29	18	47
2.	AKN-2019/065	Kawade Sanmeet Sachin	22	17	39
3.	AKN-2019/066	Kendre Siddheshwar Devidas	29	20	49
4.	AKN-2019/069	Kulkarni Disha Sunil	23	18	41
5.	AKN-2019/070	Kulkarni Ketan Pankaj	25	17	42
6.	AKN-2019/071	Labhade Pradip Sanjay	23	16	39
7.	AKN-2019/075	Medhane Sandesh Nivrutti	25	16	32
8.	AKN-2019/076	Mehendale Anant Subhash	27	17	44
9.	AKN-2019/077	More Rutuja Dipak	27	18	45
10.	AKN-2019/079	Muntode Sushil Lahanbhau	27	17	44
11.	AKN-2019/088	Patil Aditya Raosaheb	26	17	43
12.	AKN-2019/090	Patil Prachi Rambhau	27	17	44
13.	AKN-2019/091	Patil Pramod Chhotu	25	18	43
14.	AKN-2019/092	Patil Rachana Sanjay	28	20	48
15.	AKN-2019/094	Patil Varunraje Narendra	21	16	37
16.	AKN-2019/095	Patole Dhiraj Shantaram	24	17	41
17.	AKN-2019/097	Pawar Prajwal Baban	25	18	43
18.	AKN-2019/098	Pharate Omkar Shahaji	25	19	44
19.	AKN-2019/100	Pisal Karan Jaywant	21	17	38
20.	AKN-2019/104	Shaikh Jabi Sharif	24	16	40
21.	AKN-2019/105	Shaikh Majid Asif	27	17	44
22.	AKN-2019/107	Shinde Shubhangi Bhausahab	23	16	39
23.	AKN-2019/108	Shisav Amol Satish	25	18	43
24.	AKN-2019/109	Sisodiya Mittal Viveksing	25	18	43



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25.	AKN-2019/110	Solunke Kalpesh Gangadhar	28	19	47
26.	AKN-2019/114	Tarle Shriyog Subhash	22	18	40
27.	AKN-2019/115	Thakur Priyanka Nandkumar	28	19	47
28.	AKN-2019/116	Thombare Saurabh Uttam	25	18	43
29.	AKN-2019/121	Bankar Krishnakant Narayan	29	20	49
30.	AKN-2019/122	Chaudhari Amegha Madhav	22	18	40
31.	AKN-2019/124	Shelar Samruddhi Mahendra	25	17	42
32.	AKN-2019/125	Suryawanshi Divya Dnyaneshwar	24	18	42
33.	AKN-2019/126	Khairnar Lalit Kailas	23	17	40


Course Coordinator


Principal
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik



Department of Plant Pathology
Certificate course in 'Mushroom Production Technology'
Academic Year 2021-22

Report

K. K. Wagh College of Agriculture, Nashik
Department of Plant Pathology
 Certificate course in: **Mushroom Production Technology**
 Academic Year 2021-22
THEORY EXAMINATION

Class:	Final Year	Semester :	VIII
Day & Date:	28/03/2022	Time:	01:00 to 02:00 pm
Subject:	Mushroom Production Technology	Marks:	30
Name of student:		Registration no:	

Q 1. Which Equipment is to sterilize culture media by moist heat and steam under pressure.			
1. Incubator	2. Autoclave	3. Isolation chamber	4. Laminar air flow
Q 2. Which Equipment is use to incubate mushroom cultures at required temperature			
1. Spirit lamp	2. Refrigerator	3. Autoclave	4. Incubator
Q 3. Which Equipment is to observe morphological and microscopic characters of cultures.			
1. Autoclave	2. Incubator	3. Research microscope	4. Spirit lamp
Q 4. Which Equipment is to sterilize the environment in the isolation chamber and surfaces of different inoculation materials and glass wares.			
1. Spirit lamp	2. Refrigerator	3. Incubator	4. Autoclave
Q 5. Which Equipment is to maintain the aseptic condition and for inoculation purpose.			
1. Autoclave	2. Laminar air flow	3. Spirit lamp	4. Incubator
Q 6. Which Equipment is to preserve the mushroom cultures.			
1. Incubator	2. Refrigerator	3. Cryogenic Freezing	4. Spirit lamp
Q 7. Any substrate or nutrient combination which is used for cultivation of microorganisms is known as			
1. Culture Medium	2. Refrigerator	3. Cryogenic Freezing	4. Incubator
Q 8. by which method Cultures can be preserve for one to three years by using this technique.			
1. Mineral oil technique	2. Demineralised water technique	3. freeze-drying and freezing	4. Cryogenic Freezing
Q 9. pure mycelial growth grown on sterilized cereal grains / straw / saw dust.			
1. Master Spawn	2. Commercial spawn	3. Spawn	4. Saw dust spawn
Q 10. which is prepared by inoculating sterilized cereal grains/saw dust/ straw with pure culture			
1. Master Spawn	2. Spawn	3. <i>Volvariella</i> spp	4. Commercial spawn
Q 11. which is prepared prepared by inoculating sterilized cereal grains/straw /saw dust with master spawn.			
1. Master Spawn	2. <i>Volvariella</i> spp	3. Spawn	4. Commercial spawn
Q 12. Which spawn use for <i>Agaricus and Pleurotus</i> mushroom			
1. Commercial spawn	2. Spawn	3. Grain spawn	4. Master Spawn
Q 13. Which spawn use for <i>Volvariella</i> spp			
1. Master Spawn	2. Spawn	3. Commercial spawn	4. Straw spawn
Q 14. Saw dust spawn is use for			
1. <i>Volvariella</i> spp	2. Spawn	3. <i>Lentinula</i> spp	4. Commercial spawn
Q 15. Growth should be free from any spot in the spawn.			
1. Greenish or blackish	2. Commercial spawn	3. Spawn	4. Master Spawn
Q 16. Qualities of good spawn Grains should be fully covered with			
1. Commercial spawn	2. <i>Volvariella</i> spp		

3. mycelium	4. Spawn
Q 17. _____ is a complex process and requires special technical skill for raising a successful crop	
1. white button mushroom	2. Oyster mushroom
3. Button mushroom	4. Mushroom
Q 18. _____ is heterotrophic organism and requires readymade food for its growth.	
1. <i>Volvariella</i> spp	2. None of the above
3. <i>A. bisporus</i>	4. <i>Pleurotus</i>
Q 19. _____ is defined as indefinite microbial degradation of organic waste	
1. Spawning	2. Short Method
3. Casing	4. Composting
Q 20. In this method the straw is composted with the help of inorganic fertilizers in 28 days.	
1. Short Method	2. Medium Method
3. Long method	4. None of the above
Q 21. _____ means mixing of spawn in the fully prepared compost	
1. Casing	2. Spawning
3. Short Method	4. Composting
Q 22. The process of covering the compost with a thin layer of soil or soil like material after the spawn run is known as _____	
1. Composting	2. Casing
3. Short Method	4. Spawning
Q 23. Maintain relative humidity at about _____	
1. 40 to 60%	2. 50 to 90%
3. 80 to 90%	4. 60 to 80%
Q 24. Maintain temperature at _____ in the spawning room.	
1. 25°C ± 1°C	2. 24°C ± 3°C
3. 20°C ± 1°C	4. 23°C ± 5°C
Q 25. The oyster mushroom is also called as _____	
1. Dhingri	2. Both 1 & 2
3. Abalone	4. None of the above
Q 26. It ranks _____ among the important cultivated mushroom in the world.	
1. First	2. Second
3. Third	4. Fourth
Q 27. This group got the common name oyster mushroom because of _____	
1. the tongue shaped pileus	2. Both 1 & 2
3. eccentric lateral stipe.	4. None of the above
Q 28. The various methods of substrate pasteurization are adopted for _____	
1. Pleurotits cultivation	2. Steam pasteurization
3. Hot water treatment	4. Chemical pasteurization
Q 29. In _____ the substrate is exposed to steam at 80 C temperature for one hour.	
1. Steam pasteurization	2. Chemical pasteurization
3. Pleurotus cultivation	4. Hot water treatment
Q 30. In _____, treatment, the substrate is kept in boiling water for one hour.	
1 Steam pasteurization	2 Chemical pasteurization
3 Pleurotus cultivation	4 Hot water treatment



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Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22
Exam Block Report

Class- Final Year Date- 28/03/2022

Subject: Theory Paper of 'Mushroom Production Technology' Course

Block no: 02

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1.	AKN-2019/064	Kalhpure Suyog Sanjay	Kalhpure
2.	AKN-2019/065	Kawade Sanmeet Sachin	Sanmeet
3.	AKN-2019/066	Kendre Siddheshwar Devidas	Siddheshwar
4.	AKN-2019/069	Kulkarni Disha Sunil	Dr. S. Kulkarni
5.	AKN-2019/070	Kulkarni Ketan Pankaj	Ketan
6.	AKN-2019/071	Labhade Pradip Sanjay	Pradip Labhade
7.	AKN-2019/075	Medhane Sandesh Nivrutti	Sandesh Medhane
8.	AKN-2019/076	Mehendale Anant Subhash	Anant Mehendale
9.	AKN-2019/077	More Rutuja Dipak	Rutuja More
10.	AKN-2019/079	Muntode Sushil Lahanbhau	Sushil Muntode
11.	AKN-2019/088	Patil Aditya Raosaheb	Aditya Patil
12.	AKN-2019/090	Patil Prachi Rambhau	Prachi Patil
13.	AKN-2019/091	Patil Pramod Chhotu	Pramod Patil
14.	AKN-2019/092	Patil Rachana Sanjay	Rachana Patil
15.	AKN-2019/094	Patil Varunraje Narendra	Varun Patil
16.	AKN-2019/095	Patole Dhiraj Shantaram	Dhiraj Patole
17.	AKN-2019/097	Pawar Prajwal Baban	Prajwal Pawar
18.	AKN-2019/098	Pharate Omkar Shahaji	Omkar Pharate
19.	AKN-2019/100	Pisal Karan Jaywant	Karan Pisal
20.	AKN-2019/104	Shaikh Jabi Sharif	Jabi Shaikh
21.	AKN-2019/105	Shaikh Majid Asif	Majid Shaikh



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22.	AKN-2019/107	Shinde Shubhangi Bhausaheb	Shinde
23.	AKN-2019/108	Shisav Amol Satish	Shisav
24.	AKN-2019/109	Sisodiya Mittal Viveksing	Sisodiya
25.	AKN-2019/110	Solunke Kalpesh Gangadhar	Solunke
26.	AKN-2019/114	Tarle Shriyog Subhash	Tarle
27.	AKN-2019/115	Thakur Priyanka Nandkumar	Thakur
28.	AKN-2019/116	Thombare Saurabh Uttam	Thombare
29.	AKN-2019/121	Bankar Krishnakant Narayan	Bankar
30.	AKN-2019/122	Chaudhari Amegha Madhav	Chaudhari
31.	AKN-2019/124	Shelar Samruddhi Mahendra	Shelar
32.	AKN-2019/125	Suryawanshi Divya Dnyaneshwar	Suryawanshi
33.	AKN-2019/126	Khairnar Lalit Kailas	Khairnar

Total no of student:

No of student present:

No of students absent:

Name and Sign of Jr. Supervisor

Name and Sign of Sr. Supervisor





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Department of Plant Pathology
Certificate course in
'Mushroom Production Technology'
Academic Year 2021-22

Exam Time Table


All enrolled students of the Certificate Course are hereby informed that for the academic year 2021-22, the Certificate Course on **'Mushroom Production Technology'** has been completed. The examination for this certificate course is scheduled to be conducted on 28/03/2022. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr no	Date	Time	Certificate course subject
1	28/03/2022	01:00 to 02:00 pm	Theory exam: 'Mushroom Production Technology' course
2		02:00 to 03:00 pm	Practical Exam: 'Mushroom Production Technology' course


Course Coordinator


Exam Incharge


Principal
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik



K. K. Wagh College of Agriculture, Nashik
Department of Plant Pathology
 Certificate course in: **Mushroom Production Technology**
 Academic Year 2021-22

29
30

THEORY EXAMINATION

Class:	Final Year	Semester :	VIII
Day & Date:	28/03/2022	Time:	01:00 to 02:00 pm
Subject:	Mushroom Production Technology	Marks:	30
Name of student:	<i>Kalhapure Suyog S.</i>	Registration no:	<i>AKN-2019/64</i>

Q-1. Which Equipment is to sterilize culture media by moist heat and steam under pressure.			
1. Incubator	<input checked="" type="checkbox"/> 2. Autoclave	3. Isolation chamber	4. Laminar air flow
Q 2. Which Equipments use to incubate mushroom cultures at required temperature			
1. Spirit lamp	2. Refrigerator		
3. Autoclave	<input checked="" type="checkbox"/> 4. Incubator		
Q 3. Which Equipment is to observe morphological and microscopic characters of cultures.			
1. Autoclave	2. Incubator		
<input checked="" type="checkbox"/> 3. Research microscope	4. Spirit lamp		
Q 4. Which Equipment is to sterilize the environment in the isolation chamber and surfaces of different inoculation materials and glass wares.			
<input checked="" type="checkbox"/> 1. Spirit lamp	2. Refrigerator		
3. Incubator	4. Autoclave		
Q 5. Which Equipment is to maintain the aseptic condition and for inoculation purpose.			
1. Autoclave	<input checked="" type="checkbox"/> 2. Laminar air flow		
3. Spirit lamp	4. Incubator		
Q 6. Which Equipment is to preserve the mushroom cultures.			
1. Incubator	<input checked="" type="checkbox"/> 2. Refrigerator		
3. Cryogenic Freezing	4. Spirit lamp		
Q 7. Any substrate or nutrient combination which is used for cultivation of microorganisms is known as			
<input checked="" type="checkbox"/> 1. Culture Medium	2. Refrigerator		
3. Cryogenic Freezing	4. Incubator		
Q 8. by which method Cultures can be preserve for one to three years by using this technique.			
<input checked="" type="checkbox"/> 1. Mineral oil technique	2. Demineralised water technique		
3. freeze-drying and freezing	4. Cryogenic Freezing		
Q 9. pure mycelial growth grown on sterilized cereal grains / straw / saw dust.			
1. Master Spawn	2. Commercial spawn		
<input checked="" type="checkbox"/> 3. Spawn	4. Saw dust spawn		
Q 10. which is prepared by inoculating sterilized cereal grains/saw dust/ straw with pure culture			
<input checked="" type="checkbox"/> 1. Master Spawn	2. Spawn		
3. <i>Volvariella</i> spp	4. Commercial spawn		
Q 11. which is prepared prepared by inoculating sterilized cereal grains/straw /saw dust with master spawn.			
1. Master Spawn	2. <i>Volvariella</i> spp		
3. Spawn	<input checked="" type="checkbox"/> 4. Commercial spawn		
Q 12. Which spawn use for <i>Agaricus and Pleurotus</i> mushroom			
1. Commercial spawn	2. Spawn		
<input checked="" type="checkbox"/> 3. Grain spawn	4. Master Spawn		
Q 13. Which spawn use for <i>Volvariella</i> spp			
1. Master Spawn	2. Spawn		
3. Commercial spawn	<input checked="" type="checkbox"/> 4. Straw spawn		
Q 14. Saw dust spawn is use for			
1. <i>Volvariella</i> spp	2. Spawn		
<input checked="" type="checkbox"/> 3. <i>Lentinula</i> spp	4. Commercial spawn		
Q 15. Growth should be free from any spot in the spawn.			
<input checked="" type="checkbox"/> 1. Greenish or blackish	2. Commercial spawn		
3. Spawn	4. Master Spawn		
Q 16. Qualities of good spawn Grains should be fully covered with			
1. Commercial spawn	2. <i>Volvariella</i> spp		

<input checked="" type="checkbox"/> 3. mycelium	4. Spawn
Q 17. _____ is a complex process and requires special technical skill for raising a successful crop	
<input checked="" type="checkbox"/> 1. white button mushroom	2. Oyster mushroom
3. Button mushroom	4. Mushroom
Q 18. _____ is heterotrophic organism and requires readymade food for its growth.	
1. <i>Volvariella</i> spp	2. None of the above
<input checked="" type="checkbox"/> 3. <i>A. bisporus</i>	4. <i>Pleurotus</i>
Q 19. _____ is defined as indefinite microbial degradation of organic waste	
1. Spawning	2. Short Method
3. Casing	<input checked="" type="checkbox"/> 4. Composting
Q 20. In this method the straw is composted with the help of inorganic fertilizers in 28 days.	
1. Short Method	2. Medium Method
<input checked="" type="checkbox"/> 3. Long method	4. None of the above
Q 21. _____ means mixing of spawn in the fully prepared compost	
1. Casing	<input checked="" type="checkbox"/> 2. Spawning
3. Short Method	4. Composting
Q 22. The process of covering the compost with a thin layer of soil or soil like material after the spawn run is known as _____	
1. Composting	<input checked="" type="checkbox"/> 2. Casing
3. Short Method	4. Spawning
Q 23. Maintain relative humidity at about _____	
1. 40 to 60%	2. 50 to 90%
<input checked="" type="checkbox"/> 3. 80 to 90%	4. 60 to 80%
Q 24. Maintain temperature at _____ in the spawning room.	
1. $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$	2. $24^{\circ}\text{C} \pm 3^{\circ}\text{C}$
<input checked="" type="checkbox"/> 3. $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$	4. $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Q 25. The oyster mushroom is also called as _____	
1. Dhingri	<input checked="" type="checkbox"/> 2. Both 1 & 2
3. Abalone	4. None of the above
Q 26. It ranks _____ among the important cultivated mushroom in the world.	
1. First	<input checked="" type="checkbox"/> 2. Second
3. Third	4. Fourth
Q 27. This group got the common name oyster mushroom because of _____	
1. the tongue shaped pileus	<input checked="" type="checkbox"/> 2. Both 1 & 2
3. eccentric lateral stipe.	4. None of the above
Q 28. The various methods of substrate pasteurization are adopted for _____	
<input checked="" type="checkbox"/> 1. Pleurotits cultivation	2. . Steam pasteurization
3. Hot water treatment	4. Chemical pasteurization
Q 29. In _____ the substrate is exposed to steam at 80 C temperature for one hour.	
<input checked="" type="checkbox"/> 1. Steam pasteurization	2. Chemical pasteurization
3. Pleurotus cultivation	4. .Hot water treatment
Q 30. In _____, treatment, the substrate is kept in boiling water for one hour.	
1 Steam pasteurization	2 Chemical pasteurization
<input checked="" type="checkbox"/> 3 Pleurotus cultivation	4 .Hot water treatment



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Department of Plant Pathology
Certificate course in '**Mushroom Production Technology**'
Academic Year 2021-22

Report

K.K.Wagh Education Society's K.K.Wagh College of Agriculture, Saraswatinagar, Nashik which provide education in agriculture at U.G. level students. College has to decide introduce new Certificate Course in '**Mushroom Production Technology**'. Total 35 students are enrolled from department of **Plant Pathology**. Due to this certificate course in '**Mushroom Production Technology**' Students get more knowledge of different type of mushroom, Perform various methods of Harvesting & preservation of mushroom, Acquire knowledge on Study of different diseases and pests of mushroom and their management.

Course outcome

1. Gain awareness of historical and current perspectives of Mushroom Production.
2. Perform various methods of Harvesting & preservation of mushroom.
3. Acquire knowledge on Study of different diseases and pests of mushroom and their management.
4. Preparation of spawn & Cultivation of different types of mushroom.
5. Explore methods for Isolation, identification, maintenance and storage of pure cultures of mushrooms.
6. Examine the commercial aspects of Different recipes of mushroom.

Students are able to understand advance methods of Harvesting & preservation of mushroom and its application in Agriculture. It helps in improve their Isolation, identification, maintenance and storage of pure cultures of mushrooms skills and build self-confidence. Student get understand several factors which affect the mushroom production specially biotic and abiotic. This will help to improve their Problem solving skill. Students understand that different diseases and pests of mushroom and their management. Promises to be an effective alternative tool against various biotic and abiotic stresses; which has also emerged as an environment-friendly and climate resilient approach. This course also helps to motivate students to improve their entrepreneurship skill. In academic year 2021-22 Thirty Five students are enrolled for this certificate course. Course structure had been divided into theory



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and theory practical. Theory has 30 marks while theory practical has 20 marks weightage examination has been conducted for total 50 marks. Duration for this certificate course is 21/03/2022 to 26/03/2022(Total 36 hrs.). The students who successfully completed the certificate course were given a certificate as appreciation by the college.

Course coordinator is Dr. H. V. Deshmukh and member for this certificate course are, Dr. P.R. Brahmane, Prof. S.K. Ahirrao and Miss S. D. Kharat.

Course Coordinator



Principal
PRINCIPAL
K.K Wagh College of Agriculture
Saraswati Nagar, Panchavati, Nashik



K K Wagh Education Society's

K K WAGH COLLEGE OF AGRICULTURE

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Saraswatinagar, Panchavati, Nashik - 422 003

Certificate

*This is to certify that Mr./Ms.Kalhapure Suyag Sanjay.....
Class Final year.. has completed Certificate Course on ...Mushroom... Production....
.....Technology..... from 21/03/2022... to 26/03/2022... organized by
Department ofPlant Pathology..... in academic year2021-22.....*

Date : 29/03/2022

Place : Nashik

Course Coordinator



Principal
K K Wagh College of Agriculture
Nashik



PHOTO GALLERY

