



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 &
presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION
Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530880
E-mail : doll_rtmnu@gmail.com

To,
The Principal
SSES Amt's Science College, Congress Nagar, Nagpur. .

No.DOLLE/ 305/22
Dated : 12.08.2022

Subject : Sanction for Conducting Short Term Courses under Jeevan Shikshan
Abhiyan on No Grant Basis. (2022-23)

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, this is to inform you that your proposal has been accepted and your College has been granted permission to conduct the course on the following conditions:

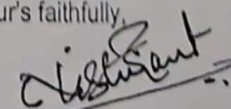
Details of the Course

Sr. No.	Name of the Course	Name of Course Coordinator	Duration	Credit	No.of Candidates to be admitted	Fees to be Charged per Student	Fees to be Deposited With the Deptt.
1	Certificate Course in Environment and Water Management.	Prof. Yogita K. Meshram	43 hrs. (15Weeks)	2	20	1500/-	10%
2	Certificate Course in Ground Water Exploration.	Ms. P. B. Zamarkar	45 hrs. T- 36 hrs. P- 09 hrs.	2	40	1500/-	10%
3	Certificate Course in Mushroom Cultivation.	Dr. R. H. Mahakhode	40 hrs. T- 20 hrs. P- 20 hrs.	2	40	1500/-	10%
4	Certificate Course in Immunology and Immunodiagnosics.	Dr. Deepthi Hynal	44 hrs. T- 36 hrs. P- 08 hrs.	2	20	1500/-	10%
5	Certificate Course in Fruit Processing and Wine Technology.	Dr. Pranita B. Gulhane	45 hrs. T- 37 hrs. P- 08 hrs.	2	20	1500/-	10%

Rules & Regulations of this Department regarding these courses should be strictly followed.

- Owing to Covid-19 situations all the norms of Central & State Government and instructions by R.T.M. Nagpur University, Nagpur should be strictly followed.
- This sanction is valid for this particular Batch only.
- Fees for the course should be charged as per the norms prescribed.
- Expenditure on the course should be incurred as per norms.
- Course should be started within a Month from the date of sanction.
Please communicate your acceptance within a month and submit the Initial Report
- Submit the List of Students admitted in the excel format attached herewith.
Also send a soft copy in CD/Pen drive.

Your's faithfully,


Director



Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur - 440012 (M.S.) India.
Accredited With CGPA Of 3.51 At 'A+' Grade.



Department of Botany

Organizes

SKILL-BASED MUSHROOM CULTIVATION CERTIFICATE COURSE

2022-2023

ABOUT COURSE

- Extensive training in mushroom cultivation techniques.
- Practical, hands-on experience with real-world applications.
- Expert guidance from industry experts.
- In-depth exploration of substrate preparation, inoculation, and harvesting.
- Skills development through project presentations and assessments.



For Registration Contact

Dr. Rupali H. Mahakhode

Application for Admission to Skill based course.

1) Certificate course : 2) Diploma course: 3) Advance dip

To,
The Principal,
Science College
Congress Nagar, Nagpur-12



R/Sir,

I hereby apply for admission to the above course. I shall abide by the rules and regulations of the concerned department and college.

Signature of the applicant

PARTICULARS TO BE FILLED IN BY THE CANDIDATE:

- 1) Full Name (Block Letters) AYUSH SURENDRA BADWAIK
2) Details of last exam. passed/failed/group/ percent marks obt. B.Sc 1st year
3) Name of Skill base programme to apply : MUSHROOM CULTIVATION
4) Details of other courses Applied/admitted _____
5) Date of birth : 10th MAY 2003 Contact No. 9822222814
E-mail. ayushbadwaik0@gmail.com
6) Information of Father / Guardian: RATNAMALA SURENDRA BADWAIK
a) Full Name : RATNAMALA SURENDRA BADWAIK b) Occupation: FARMER
c) Annual Income: 90,000/- d) Contact No. 9011758551
e) E. mail. _____

Postal address of student for correspondence:

GANJIPETH GANDHIPULA OPP,
HANUMAN MANDIR BADWAIK,
BUILDING, NAGPUR [440018]

Badwaik,

Signature of the applicant

Declaration of Father or Guardian

I declare that the applicant is my son / daughter / ward and the particulars given above by him / her are correct and shall see that he / she observes all the rules of the college.

रत्नामला सुरेन्द्र

Signature of the father / Guardian.

Full Name. RATNAMALA S. BADWAIK

Address GANJIPETH

GANDHIPULA, NAGPUR.

RTM Nagpur University
Department of Life Long Learning and Extension
Skill Based Course

S.S.E.S. AMRAVATI'S SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR, MAHARASHTRA 440012
Department of Botany

Certificate Course in
Mushroom Cultivation
CURRICULUM AND DETAILED SYLLABUS

Course title	Certificate Course in Mushroom Cultivation
Qualification of the Candidate	H.S.S.C
Duration	03 Months

Sr. No.	Distribution of Marks	Marks (40)
1.	Identification & comment on spots (5 spots)	10
2.	Project Submission	20
3.	Field visit	05
4.	Viva-voce	05

Mahakhode
Dr. R.H. Mahakhode
Course Coordinator
Assistant Professor
Department of Botany
SSES Am't's Science College
Congress Nagar, Nagpur-440012

SYLLABUS

Course components	Learning hours and mode of delivery
Unit-I: Introduction to mushrooms I. Scope, importance and history II. Classification of Mushroom III. Identification of Edible & Poisonous Mushrooms IV. Economic Importance of Mushroom	3 Weeks 07 THEORY
Unit-II: Infrastructure I. Designing & construction of Mushroom farms II. Tools & Machinery III. Sterilization and inoculation technique IV. Mushroom compost	2 Weeks 03 THEORY
Unit-III: Cultivation technique I. Climate requirement II. Bed/Bag preparation III. Types of straw in Mushroom Cultivation IV. Harvesting and post harvesting care	2 Weeks 04 THEORY
Unit-IV: Crop management & Health benefits I. Crop management II. Role of fungicide and bactericide III. Nutritional & Medicinal value of Mushroom IV. Mushroom care & handling	3 Weeks 06 THEORY
List of Practical: I. To study the identification of different types of Mushrooms II. To study the Tools used in mushroom cultivation III. To study the designing of mushroom unit IV. To study Sterilization technique V. To study inoculation technique VI. Preparation of different types of compost VII. Pasteurization of compost VIII. Methods of selection of different straws IX. To demonstrate Bed preparation X. To demonstrate Bag preparation XI. Selection of correct spawn XII. To study the different types of fungicide XIII. To study the different types of bactericide XIV. Mushroom care & handling XV. Field visit & project submission XVI. Workshop on Mushroom Cultivation	20 PRACTICAL

Teaching Plan
Certificate Course (10 Weeks)
Mushroom Cultivation

Weeks	Theory/Practical	Class/ Hours	Contents
Week I	Theory 1	60 min.	Introduction & History of Mushroom
	Theory 2	60 min.	Scope & Importance of Mushroom
	Practical	60 min.	Introduction to different Mushrooms
	Practical	60 min.	Morphology of Mushroom
Week II	Theory 3	60 min.	Classification of Mushroom
	Theory 4	60 min.	Identification of Edible Mushroom
	Practical	60 min.	To study the identification of Edible Mushroom
	Practical	60 min.	To study the identification of Poisonous Mushroom
Week III	Theory 5	60 min.	Identification of Poisonous Mushroom
	Theory 6	60 min.	Characters of Edible & Poisonous Mushroom
	Practical	60 min.	To study the tools used in mushroom cultivation
	Practical	60 min.	To study the designing of mushroom unit
Week IV	Theory 7	60 min.	Economic importance of Mushroom
	Theory 8	60 min.	Designing & construction of Mushroom farms
	Practical	60 min.	To study sterilization technique
	Practical	60 min.	To study inoculation technique
Week V	Theory 9	60 min.	Different tools & machinery used in mushroom cultivation
	Theory 10	60 min.	Sterilization & Inoculation technique
	Practical	60 min.	Preparation of different types of compost
	Practical	60 min.	Pasteurization of compost
Week VI	Theory 11	60 min.	Climate requirement
	Theory 12	60 min.	Bed preparation
	Practical	60 min.	Selection of correct spawn
	Practical	60 min.	Methods of selection of different straws

Week VII	Theory 13	60 min.	Bag preparation
	Theory 14	60 min.	Harvesting & Post harvesting care
	Practical	60 min.	To demonstrate Bed preparation
	Practical	60 min.	To demonstrate Bag preparation
Week VIII	Theory 15	60 min.	Crop management
	Theory 16	60 min.	Role of fungicide
	Practical	60 min.	To study the different types of fungicide
	Practical	60 min.	To study the different types of bactericide
Week IX	Theory 17	60 min.	Role of bactericide
	Theory 18	60 min.	Nutritional value of mushroom
	Practical	60 min.	Mushroom care & handling
	Practical	60 min.	Field visit
Week X	Theory 19	60 min.	Medicinal value of mushroom
	Theory 20	60 min.	Project writing
	Practical	60 min.	Spotting on different types of Mushroom
	Practical	60 min.	Workshop on Mushroom Cultivation

R Mahakhode

Dr. R.H. Mahakhode
 Course Coordinator
 Dr. ~~Depali H~~ Mahakhode
 Assistant Professor
 Department of Botany
 SSES Amt's Science College
 Congress Nagar, Nagpur-440012.

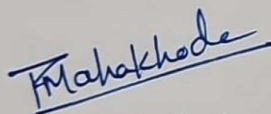
S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASE PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

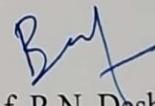
Notice

The Department of Botany is conducting **Certificate Course on Mushroom Cultivation** (Skill Base Course) under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2022-23. Interesting students of B.Sc. Part I & Part II should registered themself in early and contact to the Course Coordinator Dr. R. H. Mahakhode immediately.

Course	Admission Fees
Mushroom Cultivation	Rs. 1500/-



Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany



Prof. R.N. Deshmukh
HOD
Dept. of Botany

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation
Students List

Sr. No	Name of Students
1	Badwaik Ayush
2	Batke Manoj Abhishek
3	Bawankar Prakash Vaidehee
4	Bhandare Prakash Kopal
5	Chipate Pravin Tanaya
6	Dutta Soni Raven
7	Ghadge Ramu Siddhant
8	Giri Devendra
9	Hadke Rashjrapal Tanmayee
10	Khobragade Komal
11	Mahule Nitin Yash
12	Mishra Rajiv Khushi
13	Mohod Sanjay Madhavi
14	Muley Shrikant Avantika
15	Nagare Pradip Tanmay
16	Pandey Bipin Divya
17	Raut Prabhakar Mansi
18	Roria Singh Ranvir Madhavi
19	Shinde Vijay Akansha
20	Singh Rakesh Divya

Mahakhode

Dr. R.H. Mahakhode
Course Coordinator
Dr. Rupali H. Mahakhode
Assistant Professor
Department of Botany
SSES Amt's Science College
Congress Nagar, Nagpur-440012.

S.S.E.S.A's Science College, Congress Nagar, Nagpur
Department of Botany
SKILL BASE PROGRAMME (2022-2023)

TIME TABLE

w.e.f. 01/0/9/2022

Certificate Course: Mushroom Cultivation

Days	Time	
	Theory Classes	Practical Classes
Monday	3:15 pm-4:15pm	-
Tuesday	3:15 pm-4:15pm	-
Wednesday	-	-
Thursday	-	-
Friday	-	3:15 pm-4:45pm
Saturday	-	-

Mahakhede
Course Coordinator
Dr. Rupal H. Mahakhede
S.S.E.S.A's Science College,
Nagpur
Department of Botany
SSES Amt's Science College
Congress Nagar, Nagpur-440012.

@
Course Coordinator
Dr. A.D. Bobdey
S.S.E.S.A's Science College,
Nagpur

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

TWO DAYS WORKSHOP

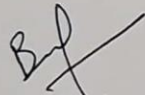
Notice

Date: 21/03/2023

Department of Botany will be organizing Two Days Workshop on “**Mushroom Cultivation**” and power point presentation by Dr. Abhimanyu Rao Dongarwar, Expert, Sky Mushroom, Nagpur for the registered students of Certificate Course under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2022-23 to inculcate Entrepreneurship Skill and Self Employment amongst the students.

Date: 23-24 March 2023

Time: 1:00 pm Venue: Botany Lab



Prof. R.N. Deshmukh
HOD
Dept. of Botany



Prof. M.P. Dhore
Principal
Science College, Nagpur



Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

WORKSHOP

ATTENDANCE

Date: 23-24/03/2023

Sr. No	Name of Students	Class	Group	Signature
1	Badwaik Ayush	BSC - II	CBZ	<i>Badwaik</i>
2	Batke Manoj Abhishek	BSC - II	CBZ	<i>Abh</i>
3	Bawankar Prakash Vaidehee	BSC - II	CBM	<i>Prakash</i>
4	Bhandare Prakash Kopal	BSC - II	CBG	<i>Kopal</i>
5	Chipate Pravin Tanaya	BSC - II	CBM	<i>Chipate</i>
6	Dutta Soni Raven	BSC - I	CBZ	<i>Raven</i>
7	Ghadge Ramu Siddhant	BSC - I	CBM	<i>S.R. Ghadge</i>
8	Giri Devendra	BSC - II	CBZ	<i>Devendra</i>
9	Hadke Rashjrapal Tanmayee	BSC - II	CBZ	<i>Tanmayee Hadke</i>
10	Khobragade Komal	BSC - III	CBZ	<i>Komal</i>
11	Mahule Nitin Yash	BSC - III	CBG	<i>Nitin</i>
12	Mishra Rajiv Khushi	BSC - III	CBZ	<i>Rajiv</i>
13	Mohod Sanjay Madhavi	BSC - III	CBG	<i>Sanjay</i>
14	Muley Shrikant Avantika	BSC - I	CBG	<i>Shrikant</i>
15	Nagare Pradip Tanmay	BSC - I	CBM	<i>Pradip</i>
16	Pandey Bipin Divya	BSC - II	CBZ	<i>Bipin</i>
17	Raut Prabhakar Mansi	BSC - III	CBM	<i>Prabhakar</i>
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	<i>Roria</i>
19	Shinde Vijay Akansha	BSC - I	CBZ	<i>Vijay</i>
20	Singh Rakesh Divya	BSC - II	CBM	<i>Rakesh</i>

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany

SKILL BASE PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

GUEST LECTURE

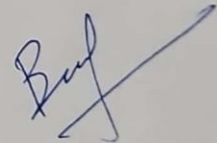
Notice

Date: 17/11/2022

The students who are admitted in Mushroom Cultivation Certificate Course (Skill Base Course) under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2022-23 are hereby informed that department of Botany is organizing Guest lecture, by Dr. Abhimanyu Rao Dongarwar, Expert, Sky Mushroom, Nagpur on 18th November at 12.30 pm in C-1 Class room. All Students are informed to remain present for the same.



Dr. R.H. Mahakhode
Course Coordinator
Dr. Rupali H. Mahakhode
Dept. of Botany
Assistant Professor
Department of Botany
SSES Amt's Science College
Congress Nagar, Nagpur-44001.



Prof. R.N. Deshmukh
HOD
Professor and Head
Dept. of Botany,
SSES Amt's Science College,
Congress Nagar, Nagpur-44

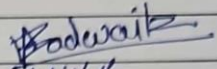
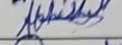
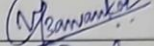
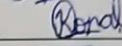
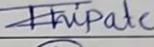
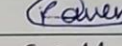
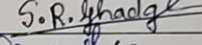
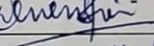
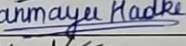
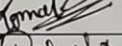
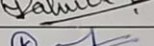
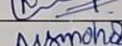
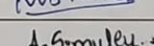
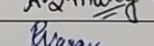
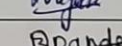
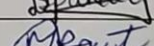
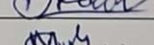
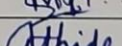
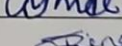
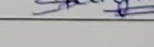
S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASE PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

GUEST LECTURE

ATTENDANCE

Date: 18/11/2022

Sr. No	Name of Students	Class	Group	Signature
1	Badwaik Ayush	BSC - II	CBZ	
2	Batke Manoj Abhishek	BSC- II	CBZ	
3	Bawankar Prakash Vaidehee	BSC - II	CBM	
4	Bhandare Prakash Kopal	BSC - II	CBG	
5	Chipate Pravin Tanaya	BSC - II	CBM	
6	Dutta Soni Raven	BSC - I	CBZ	
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8	Giri Devendra	BSC - II	CBZ	
9	Hadke Rashtrapal Tanmayee	BSC - II	CBZ	
10	Khobragade Komal	BSC - III ✓	CBZ	
11	Mahule Nitin Yash	BSC - III ✓	CBG	
12	Mishra Rajiv Khushi	BSC - III ✓	CBZ	
13	Mohod Sanjay Madhavi	BSC - III ✓	CBG	
14	Muley Shrikant Avantika	BSC - I	CBG	
15	Nagare Pradip Tanmay	BSC - I	CBM	
16	Pandey Bipin Divya	BSC - II	CBZ	
17	Raut Prabhakar Mansi	BSC - III ✓	CBM	
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	
19	Shinde Vijay Akansha	BSC - I	CBZ	
20	Singh Rakesh Divya	BSC - II	CBM	

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

GUEST LECTURE 2

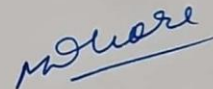
Notice

Date: 13/03/2023

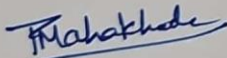
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HOD
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Prof. M.P. Dhore
Principal
Science College, Nagpur



Dr. R.H. Mahakhode
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Dept. of Botany

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

GUEST LECTURE 2

ATTENDANCE

Date: 15/03/2023

Sr. No	Name of Students	Class	Group	Signature
1	Badwaik Ayush	BSC - II	CBZ	Badwaik.
2	Batke Manoj Abhishek	BSC - II	CBZ	Batke
3	Bawankar Prakash Vaidehee	BSC - II	CBM	Bawankar
4	Bhandare Prakash Kopal	BSC - II	CBG	Bhandare
5	Chipate Pravin Tanaya	BSC - II	CBM	Chipate
6	Dutta Soni Raven	BSC - I	CBZ	Raven
7	Ghadge Ramu Siddhant	BSC - I	CBM	S.R. Ghadge
8	Giri Devendra	BSC - II	CBZ	Giri
9	Hadke Rashjrapal Tanmayee	BSC - II	CBZ	Tanmayee Hadke
10	Khobragade Komal	BSC - III	CBZ	Komal
11	Mahule Nitin Yash	BSC - III	CBG	Mahule
12	Mishra Rajiv Khushi	BSC - III	CBZ	Mishra
13	Mohod Sanjay Madhavi	BSC - III	CBG	Mohod
14	Muley Shrikant Avantika	BSC - I	CBG	Muley
15	Nagare Pradip Tanmay	BSC - I	CBM	Nagare
16	Pandey Bipin Divya	BSC - II	CBZ	Pandey
17	Raut Prabhakar Mansi	BSC - III	CBM	Raut
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	Roria
19	Shinde Vijay Akansha	BSC - I	CBZ	Shinde
20	Singh Rakesh Divya	BSC - II	CBM	Singh

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

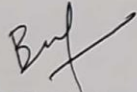
Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

GUEST LECTURE 3

Notice

Date: 13/03/2023

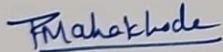
The students who are admitted in Mushroom Cultivation Certificate Course (Skill Based Course) under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2022-23 are hereby informed that department of Botany will be organizing Guest lecture, by Dr. Abhimanyu Rao Dongarwar, Expert, Sky Mushroom, Nagpur on 16th March at 12.00 pm in C-1 Class room. All Students are informed to remain present for the same.



Prof. R.N. Deshmukh
HOD
Dept. of Botany



Prof. M.P. Dhore
Principal
Science College, Nagpur



Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

GUEST LECTURE 3

ATTENDANCE

Date: 16/03/2023

Sr. No	Name of Students	Class	Group	Signature
1	Badwaik Ayush	BSC - II	CBZ	Badwaik
2	Batke Manoj Abhishek	BSC- II	CBZ	Batke
3	Bawankar Prakash Vaidehee	BSC - II	CBM	Bawankar
4	Bhandare Prakash Kopal	BSC - II	CBG	Bhandare
5	Chipate Pravin Tanaya	BSC - II	CBM	Chipate
6	Dutta Soni Raven	BSC - I	CBZ	Dutta
7	Ghadge Ramu Siddhant	BSC - I	CBM	S.P. Ghadge
8	Giri Devendra	BSC - II	CBZ	Giri
9	Hadke Rashjrapal Tanmayee	BSC - II	CBZ	Tanmayee Hadke
10	Khobragade Komal	BSC - III	CBZ	Khobragade
11	Mahule Nitin Yash	BSC - III	CBG	Mahule
12	Mishra Rajiv Khushi	BSC - III	CBZ	Mishra
13	Mohod Sanjay Madhavi	BSC - III	CBG	Mohod
14	Muley Shrikant Avantika	BSC - I	CBG	Muley
15	Nagare Pradip Tanmay	BSC - I	CBM	Nagare
16	Pandey Bipin Divya	BSC - II	CBZ	Pandey
17	Raut Prabhakar Mansi	BSC - III	CBM	Raut
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	Roria
19	Shinde Vijay Akansha	BSC - I	CBZ	Ashmele
20	Singh Rakesh Divya	BSC - II	CBM	Singh

Attendance Sheet

Sr. No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Badwaik Surendra Ayush	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
2	Batke Manoj Abhishek	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
3	Bawankar Prakash Vaidehee	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
4	Bhandare Prakash Kopal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
5	Chipate Pravin Tanaya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
6	Dutta Soni Raven	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
7	Ghadge Ramu Siddhant	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
8	Giri S. Devendra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
9	Hadke Rashjrapal Tanmayee	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
10	Khobragade Liladhar Komal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
11	Mahule Nitin Yash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
12	Mishra Rajiv Khushi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
13	Mohod Sanjay Madhavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
14	Muley Shrikant Avantika	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
15	Nagare Pradip Tanmay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
16	Pandey Bipin Divya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
17	Raut Prabhakar Mansi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
18	Madhavi Roria Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
19	Shinde Vijay Akanksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20
20	Singh Rakesh Divya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20

Mahakhade
[Dr. R.H. Mahakhade]

Attendance Sheet

St. No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Badwaik Surendra Ayush	P	P	P	P	P	P	P	P	P	P												
2	Batke Manoj Abhishek	P	P	P	P	P	P	P	P	P	P												
3	Bawankar Prakash Vaidehee	P	P	P	P	P	P	P	P	P	P												
4	Bhandare Prakash Kopal	P	P	P	P	P	P	P	P	P	P												
5	Chipate Pravin Tanaya	P	P	P	P	P	P	P	P	P	P												
6	Dutta Soni Raven	P	P	P	P	P	P	P	P	P	P												
7	Ghadge Ramu Siddhant	P	P	P	P	P	P	P	P	P	P												
8	Giri S. Devendra	P	P	P	P	P	P	P	P	P	P												
9	Hadke Rashjrapal Tanmayee	P	P	P	P	P	P	P	P	P	P												
10	Khobragade Liladhar Komal	P	P	P	P	P	P	P	P	P	P												
11	Mahule Nitin Yash	P	P	P	P	P	P	P	P	P	P												
12	Mishra Rajiv Khushi	P	P	P	P	P	P	P	P	P	P												
13	Mohod Sanjay Madhavi	P	P	P	P	P	P	P	P	P	P												
14	Muley Shrikant Avantika	P	P	P	P	P	P	P	P	P	P												
15	Nagare Pradip Tanmay	P	P	P	P	P	P	P	P	P	P												
16	Pandey Bipin Divya	P	P	P	P	P	P	P	P	P	P												
17	Raut Prabhakar Mansi	P	P	P	P	P	P	P	P	P	P												
18	Madhavi Roria Singh	P	P	P	P	P	P	P	P	P	P												
19	Shinde Vijay Akanksha	P	P	P	P	P	P	P	P	P	P												
20	Singh Rakesh Divya	P	P	P	P	P	P	P	P	P	P												

Dr. R. H. Mahalkhede

Theory/Practical: Practical

Teacher: Dr. R.H. Mahakhede

Attendance Sheet

Sr. No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Badwaik Surendra Ayush	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
2	Batke Manoj Abhishek	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3	Bawankar Prakash Vaidehee	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
4	Bhandare Prakash Kopal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
5	Chipate Pravina Tanaya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
6	Dutta Soni Raven	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
7	Ghadge Ramu Siddhant	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
8	Giri S. Devendra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
9	Hadke Rashirajal Tanmayee	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
10	Khobragade Liladhar Komal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
11	Mahule Nitin Yash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
12	Mishra Rajiv Khushi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
13	Mohod Sanjay Madhavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
14	Muley Shrikant Avantika	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
15	Nagare Pradip Tanmay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
16	Pandey Bipin Divya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
17	Raut Prabhakar Mansi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
18	Madhavi Roria Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
19	Shinde Vijay Akanksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
20	Singh Rakesh Divya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				

Dr. R.H. Mahakhede
(Dr. R.H. Mahakhede)

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur.

SKILL BASED COURSE EXAMINATION (2022-2023)

Certificate Course: Mushroom Cultivation

Date: 18/04/2023

NOTICE

All the registered students of Skill Based Course on Mushroom Cultivation under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2022-23 are hereby informed that the theory examination is to be scheduled on 21/04/2023 (Friday) at 10:30 am to 11:30 am in Botany Laboratory at our college centre. All Students should be present in the laboratory before 10 mins. of scheduled time of examination.

Mahakhode

Dr. R.H. Mahakhode
Course Coordinator
Skill Based Course
Department of Botany

Dr. Rupali H. Mahakhode
Assistant Professor
Department of Botany
S.S.S. Am's Science College
Congress Nagar, Nagpur-440012.

Department of Botany
Skill Based Course (2022-23)
Mushroom Cultivation Certificate Course

Seat No. _____

Date: 21/04/2023

Marks- 30

- N.B.:- (1) There are 10 Practical based objective type questions.
(2) All questions are compulsory and each question carry 2 marks.

Q. Choose the correct option from the following questions.

1. Which of the following is the most popular variety of mushroom cultivated in India?
 - Agaricus campestris*
 - Agaricus bisporus*
 - Volvariella*
 - Pleurotus*
2. Which of the following is a step involved in cultivation of button mushrooms?
 - Casing
 - Composting
 - Spawning
 - All of these
3. Which method is used for the sterilization of straw?
 - Chemical sterilization
 - Dry heat sterilization
 - Wet heat sterilization
 - All of the above.
4. Identify the mushroom.



- Button mushroom
 - Oyster mushroom
 - Crab mushroom
 - Lobster mushroom
5. Which component accounts for approximately 90 percent of mushrooms?
 - Protein
 - Water
 - Oxygen
 - Nitrogen
 6. An edible mushroom is a mushroom that can potentially be safely eaten.
 - True
 - False

7. How do mushrooms reproduce?

- Spores
- Seeds
- gametes
- Mycelium

8. When does the life cycle of mushrooms start?

- When fully-grown mushrooms produce spores
- When fully-grown mushrooms develop flowers
- When mushrooms take root
- When fully-grown mushrooms develop fruits

9. Formaldehyde is used as _____ in mushroom cultivation.

- Disinfectant
- Fertilizer
- Insect repellent
- Food material

10. In mushroom cultivation, Spawn is

- Compost
- Button stage
- Vegetative mycelium
- Harvested mushroom

11. Identify the mushroom.



- Portobello mushroom
- Morel mushroom
- Button mushroom
- Shitake mushroom

12. Basidiospores are _____ spores.

- Exogenous
- Endogenous
- Both a and b
- None of these

13. Post harvest handling unit consist of

- Pre cooling chamber
- Canning hall
- Spawn
- Both a and b

14. Mushroom is:

- Saprophytic fungus
- Autotrophic Algae
- Heterotrophic fungus
- None of the above

15. Canning is employed for _____

- Long term storage
- Short term storage
- Both
- None of the above

16. *Agaricus bisporus* belongs to family

- Agaricaceae
- Malvaceae
- Rubiaceae
- Solanaceae

17. When young fruiting body is completely enveloped by a thin membrane, it is called

- Mycelium
- Rhizoids
- Velum
- Septate

18. Mushroom has _____

- Anticancer property
- Anti aging property
- Antibiotic property
- All of the above

19. With the growth of _____ velum gets ruptured, while a part of it remained attached to stipe in the form of ring or _____.

- Basidiocarp and Slender
- Pileus and Annulus
- Pyrenoid and Conjugation
- Hyaline and Pyrenoid

20. AHU stands for _____

- Air Handling Unit
- Air Hassel Unit
- Aeroplane Handling Unit
- None of the above

21. During Spawning temperature should be maintained between _____

- 20-30
- 55-70
- 80-100
- 0-10

22. Mushrooms are good source of _____

- Protein
- Carbohydrates
- Fats
- None of these

23. The gills of mushrooms _____?

- Help in respiration
- Help in Nutrition
- Help in enhancing buoyancy
- Bear spores which help in reproduction

24. Longer method of compost preparation requires -----days
- 28 days
 - 15 Days
 - 45 days
 - 8 days
25. Fruiting in mushroom is induced by
- Lowering temperature
 - Maintaining humidity and moisture
 - Maintaining ventilation and CO₂ concentration
 - All of above
26. What is spawn?
- Vegetative hyphae
 - Fruiting body
 - Spores
 - None of the above
27. Which is non edible mushroom?
- Amanita
 - Agaricus
 - Volvariella
 - Pleurotus
28. The mushroom spawn preparation needs addition of calcium carbonate because it _____?
- Maintains the pH
 - Absorbs excess water
 - Helps in keeping grains separate
 - All of above
29. Which of the following method is used after spawn running?
- Spawn production
 - Casing
 - Compost preparation
 - All of above
30. Which of the following are commonly adopted post harvest processing methods of mushrooms?
- Refrigeration
 - Dehydration
 - Canning
 - All of above

Marks Obtained:
Teacher's Sign.

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

Department of Botany
SKILL BASED PROGRAMME (2022-2023)
Certificate Course: Mushroom Cultivation

Theory Examination

ATTENDANCE

Date: 21/04/2023

Sr.No	Name of Students	Class	Group	Signature
1	Badwaik Ayush	BSC - II	CBZ	<u>Badwaik</u>
2	Batke Manoj Abhishek	BSC- II	CBZ	<u>Batke</u>
3	Bawankar Prakash Vaidehee	BSC - II	CBM	<u>Bawankar</u>
4	Bhandare Prakash Kopal	BSC - II	CBG	<u>Bhandare</u>
5	Chipate Pravin Tanaya	BSC - II	CBM	<u>Chipate</u>
6	Dutta Soni Raven	BSC - I	CBZ	<u>Raven</u>
7	Ghadge Ramu Siddhant	BSC - I	CBM	<u>S.R. Ghadge</u>
8	Giri Devendra	BSC - II	CBZ	<u>Giri</u>
9	Hadke Rashjrapal Tanmayee	BSC - II	CBZ	<u>Tanmaya Hadke</u>
10	Khobragade Komal	BSC - III	CBZ	<u>Komal</u>
11	Mahule Nitin Yash	BSC - III	CBG	<u>Mahule</u>
12	Mishra Rajiv Khushi	BSC - III	CBZ	<u>Mishra</u>
13	Mohod Sanjay Madhavi	BSC - III	CBG	<u>Mohod</u>
14	Muley Shrikant Avantika	BSC - I	CBG	<u>Muley</u>
15	Nagare Pradip Tanmay	BSC - I	CBM	<u>Nagare</u>
16	Pandey Bipin Divya	BSC - II	CBZ	<u>Pandey</u>
17	Raut Prabhakar Mansi	BSC - III	CBM	<u>Raut</u>
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	<u>Roria</u>
19	Shinde Vijay Akansha	BSC - I	CBZ	<u>Shinde</u>
20	Singh Rakesh Divya	BSC - II	CBM	<u>Singh</u>

Mahalkhede
[Dr. Rupali Mahalkhede]
Assistant Professor
Department of Botany
SSES Amt's Science College
Congr. ss Nagar, Nagpur-440012,

Rastrasant Tukadoji Maharaj Nagpur University, Nagpur
Session 2022-23

SKILL BASED COURSE EXAMINATION
Certificate Course: Mushroom Cultivation

Center: S.S.E.S. Amt's Science College, Congress Nagar, Nagpur

Date: 06/05/2023

Total Marks: 100

STATEMENT OF MARKS

Sr. No.	Name of students	Theory marks (50)	Practical marks (30)	Project Marks (10)	Internal Assessment (10)	Total Marks (100)	Grade
1.	Badwaik Surendra Ayush	38	26	10	10	84	A
2.	Batke Manoj Abhishek	36	30	10	10	86	A+
3.	Bawankar Prakash Vaidehee	42	27	10	10	89	A+
4.	Bhandare Prakash Kopal	36	25	10	10	81	A
5.	Chipate Pravin Tanaya	32	28	10	10	80	A
6.	Dutta Soni Raven	46	30	10	10	96	A+
7.	Ghadge Ramu Siddhant	32	30	10	10	82	A
8.	Giri S. Devendra	24	25	10	10	69	B+
9.	Hadke Rashjrapal Tanmayee	30	27	10	10	77	A
10.	Khobragade Liladhar Komal	36	29	10	10	85	A
11.	Mahule Nitin Yash	36	30	10	10	86	A+
12.	Mishra Rajiv Khushi	38	28	10	10	86	A+
13.	Mohod Sanjay Madhavi	38	30	10	10	88	A+

14.	Muley Shrikant Avantika	21	24	10	10	65	B+
15.	Nagare Pradip Tanmay	36	26	10	10	82	A
16.	Pandey Bipin Divya	34	28	10	10	82	A
17.	Raut Prabhakar Mansi	46	27	10	10	93	A+
18.	Roria Madhavi RanvirSingh	30	30	10	10	80	A
19.	Shinde Vijay Akanksha	20	27	10	10	67	B+
20.	Singh Rakesh Divya	48	30	10	10	98	A+

Prof.A.D.Bobdey
Convener

Mahakhode
Dr.R.H.Mahakhode
Dr. Course Coordinator
Assistant Professor
Department of Botany
SSES Amle Science College
Congress Nagar, Nagpur-440012

Shri Shivaji Education Society Amaravati's
SCIENCE COLLEGE, Congress Nagar, Nagpur
Department of Botany
Organized
Skill- Based Mushroom Cultivation Certificate Course
Session 2022-23

REPORT

Mushroom is a fungus which belongs to Basidiomycetes family. It is the only edible fungus. Mushroom cultivation is a technology of growing mushrooms using plant, animal and industrial waste. In a nutshell mushroom cultivation is a “**Wealth out of waste technology**”. Mushroom cultivation is a technique which lead to the entrepreneurship and it is advantageous for students under the heads “Earn while learn”.

Department of Botany conducted Two days workshop on ‘**Mushroom Cultivation**’, skill based program under Life Long Learning and Extension, RTMNU, Nagpur for the session 2022-23 on 23 and 24th of March 2023 in Botany laboratory, Shri Shivaji Science College, Nagpur.

Chief Guest of the program was Mr. Abhimanyu Rao Dongarwar, founder and developer of Sky Mushrooms and training and spawn laboratory. Prof. M.P.Dhore, Principal congratulated the students and advised that the course has much more potential in terms of gaining the employment. Prof. R.N. Deshmukh, HOD highlighted the value of mushrooms. Dr. R.H.Mahakhode, Co-ordinator, Mushroom Cultivation Certificate Course (skill based program) learned about the importance, medicinal and nutritional values of the edible mushroom for humankind and also developed the employment skill among the students.

Mr. Abhimanyu Rao Dongarwar guided the students to understand the Mushroom Cultivation technique. The program was attended by students through registration under this course. The workshop was conducted for two days, in which students learned about exploring mushrooms, cultivation of Oyster mushrooms and its types. Students gained knowledge about benefits of edible mushrooms including how to fill bags and spawn preparation & information about varieties of mushrooms like button mushrooms, paddy straw mushroom, oyster mushrooms, milky mushrooms etc.

The duration of the course is 45 hrs. The programme held in the following manner- First Guest lecture was held on 18th November 2022, in which students learned about “Introduction and Identification of Edible Mushrooms”.

Second lecture was conducted on 15th March 2023, in which “Sterilization Technique and Preparation of Substrate/ Compost and Nutrition Value of Mushrooms” learnt by students.

In the third lecture students acquired knowledge about “Inoculation, Harvesting, Storage and Marketing of Edible Mushrooms” which was conducted on 16th March 2023.

Prof. R. N. Deshmukh, Prof. P.S. Tiwari, Dr. Mrs. R. P. Sonwalker, M. P. Bulkunde attended the programme.

Importance of Oyster Mushrooms-

Mushrooms found to have high protein contents (i.e., 50-51%) along with the proteins have 18 different types of amino acids. It has a high minerals content, Vitamin C, D and Vitamin B1, B3, B5 and Cyanocobalamin. Mushrooms can be easily grow and it has good economic values. The yield of mushrooms is noteworthy when properly managed to care. Mushroom also show anti- cancerous, anti-diabetics along with that antiaging, zero fat level, and antiviral, also used in antibiotics preparation. Mushrooms utilize to normalize and stabilized blood pressure for heart patients, increases metabolism and contains insulin, improves digestion etc.

Students were completed projects on topics,

Project 1: Mushroom Cultivation: Sterilization & Inoculation Technique

Project 2: Mushroom Cultivation: Harvesting & Processing

The certificate course was completed by taking examination of the students. Question papers are of 50 Marks and it contains 25 objective type questions and each carries 2 marks.



Workshop on Mushroom Cultivation – Day 1



Time: 23-03-2023 12:55
Note: Mushroom Cultivation



Latitude: 21.127811
Longitude: 79.082493
Elevation: 440.46±185 m
Accuracy: 157.5 m
Time: 11-18-2023 12:46

Powered by NoteCam



Latitude: 21.128093
Longitude: 79.081846
Elevation: 333.46m
Accuracy: 36.9m
Time: 23-03-2023 14:15
Note: Mushroom Cultivation



Latitude: 21.128102
Longitude: 79.081844
Elevation: 333.46m
Accuracy: 21.6m
Time: 23-03-2023 14:18
Note: Mushroom Cultivation



GPS Map Camera
Nagpur, Maharashtra, India
43HJ+6HW, Humpyard Rd, Near Ajni Railway Station, Nagpur, Maharashtra 440012, India
Lat 21.128116°
Long 79.08185°
23/03/23 02:31 PM GMT +05:30



GPS Map Camera
Nagpur, Maharashtra, India
Humpyard Rd, opp shivaji science college, 43HJ+AR9, Congress Nagar, Ajani Medical Colony, Ajni, Dhantoli, Nagpur, Maharashtra 440012, India
Lat 21.128054°
Long 79.08187°
23/03/23 02:54 PM GMT +05:30

Workshop on Mushroom Cultivation – Day 2



Fruiting Body of Oyster Mushroom – Day 15



Mahakhode

Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany

ACTION TAKEN REPORT

Certificate course in Mushroom Cultivation (Skill Based Course) under the Department of Life Long Learning and Extension, RTMU, Nagpur was conducted by the Department of Botany, Shri Shivaji Science College, Nagpur in the session 2022-23. Total Twenty students were registered for this certificate course.

The Department of Botany organised two-day workshop on 'Mushroom Cultivation' on March 23-24, 2023. The workshop, part of the Life Long Learning and Extension program, featured Mr. Abhimanyu Rao Dongarwar of Sky Mushrooms. Students learned about various mushroom cultivation techniques, including sterilization, inoculation, and harvesting. The program included guest lectures and hands-on projects, focusing on the economic and health benefits of mushrooms. The course concluded with an examination, and students gained valuable skills in mushroom cultivation.

R. Mahakhode

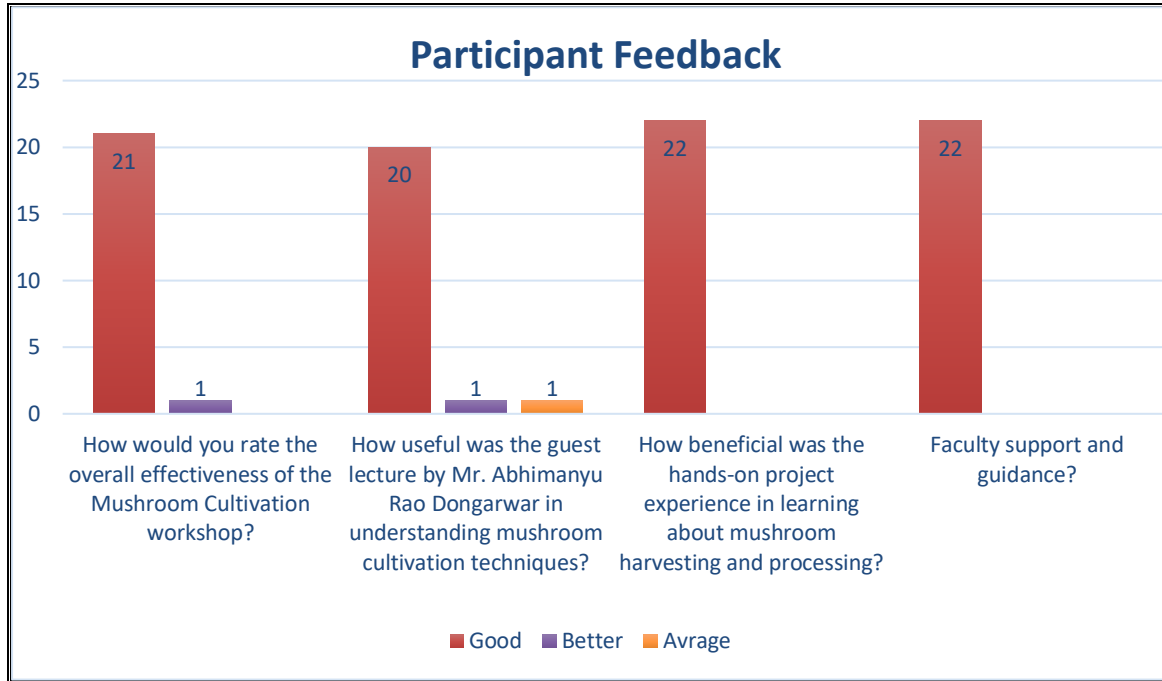
Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany

FEEDBACK FORM

Sr. No.	Question	Response		
		Good	Better	Average
1)	How would you rate the overall effectiveness of the Mushroom Cultivation workshop?			
2)	How useful was the guest lecture by Mr. Abhimanyu Rao Dongarwar in understanding mushroom cultivation techniques?			
3)	How beneficial was the hands-on project experience in learning about mushroom harvesting and processing?			
4)	Faculty support and guidance?			

R. H. Mahakhode

Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany



R.H. Mahakhode

Dr. R.H. Mahakhode
Course Coordinator
Dept. of Botany

Dr. A. Halder

Signature of IQAC Coordinator
Internal Quality Assurance Cell
(IQAC)
S. S. E. S. Science College
Congress Nagar, Nagpur



Mohore

Signature of Principal
Principal
S. S. E. S. Amravati's
Science College, Nagpur.



Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

[Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016(Mah. Act No. VI of 2017)]

University Skill Development Centre (under Board of Lifelong Learning and Extension)

Certificate

No. JSA. MC-19.

Shri/Smt./Ku. **Akanksha Vijay Shinde** is awarded with Certificate on successful completion of the course titled **Certificate Course in Mushroom Cultivation** in session 2022-2023 under **Jeevan Shikshan Abhiyan** conducted for **45 hours** from 05/09/2022 to 21/03/2023 by the **Board of Lifelong Learning & Extension** in collaboration with **Department of Botany, S.S.E.S. Amt's Science College Congress Nagar, Nagpur, 440412.**

He/She has passed the Examination with **B+** Grade

Total Credits Earned : 01

Principal
SSES Amt's Science College
Congress Nagar, Nagpur-12

Course Co-ordinator
SSES Amt's Science College
Congress Nagar, Nagpur-12

Director
Board of Lifelong Learning
and Extension, RTMNU, Nagpur