DEPARTMENT OF BOTANY

Organized

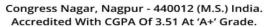
Certificate Course on Mushroom Cultivation Session 2022-2023





Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE







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

Department of Botany

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

Notice

Date: 17/08/2022

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

Mahakhode

Course Coordinator

Dept. of Botany

Department of Botany SKILL BASED PROGRAMME (2022-2023)

Certificate Course: Mushroom Cultivation List of Admitted students

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

Trahakhode
Dr.R.H.Mahakhode
Course Coordinator

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

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

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 hereby informed that department of Botany will be organizing Guest lecture, by Dr. Abhimanyu Rao Dongarwar, Expert, Sky Mushroom, Nagpur on 15th March at 1.00 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

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 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

Moure Prof. M.P. Dhore Principal Science College, 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	Thodwait-
2	Batke Manoj Abhishek	BSC- II	CBZ	Abb
3	Bawankar Prakash Vaidehee	BSC - II	CBM	Mounts.
4	Bhandare Prakash Kopal	BSC - II	CBG	(kapul
5	Chipate Pravin Tanaya	BSC - II	CBM	Thipate
6	Dutta Soni Raven	BSC - I	CBZ	Lowen
7	Ghadge Ramu Siddhant	BSC - I	CBM	S.R. Shada
8	Giri Devendra	BSC-II	CBZ	Developer
9	Hadke Rashjrapal Tanmayee	BSC - II	CBZ	Jannay B Hadk
10	Khobragade Komal	BSC - III	CBZ	Kanak
11	Mahule Nitin Yash	BSC - III	CBG	Walnuty
12	Mishra Rajiv Khushi	BSC - III	CBZ	(Party
13	Mohod Sanjay Madhavi	BSC - III	CBG	memobile
14	Muley Shrikant Avantika	BSC - I	CBG	Que
15	Nagare Pradip Tanmay	BSC - I	CBM	Ragare
16	Pandey Bipin Divya	BSC - II	CBZ	Boardey
17	Raut Prabhakar Mansi	BSC - III	CBM	Phant
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	Might.
19	Shinde Vijay Akansha	BSC - I	CBZ	penne
20	Singh Rakesh Divya	BSC - II	CBM	- Singha

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

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

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

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

	EST LECTURE 3	ATTENDANCE		Date: 16/03/202	
Sr. No	Name of Students	Class	Group	Signature	
1	Badwaik Ayush	BSC - II	CBZ	# odunit	
2	Batke Manoj Abhishek	BSC- II	CBZ	1612	
3	Bawankar Prakash Vaidehee	BSC - II	CBM	(poule	
4	Bhandare Prakash Kopal	BSC - II	CBG	Woney.	
5	Chipate Pravin Tanaya	BSC - II	CBM	Hupate	
6	Dutta Soni Raven	BSC - I	CBZ	Caren	
7	Ghadge Ramu Siddhant	BSC - I	CBM	5. R. Schadge	
8	Giri Devendra	BSC – II	CBZ	Deverer.	
9	Hadke Rashjrapal Tanmayee	BSC - II	CBZ	JanmayeeHadk	
10	Khobragade Komal	BSC - III	CBZ	Home	
11	Mahule Nitin Yash	BSC - III	CBG	Palmles	
12	Mishra Rajiv Khushi	BSC - III	CBZ	Q-A	
13	Mohod Sanjay Madhavi	BSC - III	CBG	-mymolies+	
14	Muley Shrikant Avantika	BSC - I	CBG	duce	
15	Nagare Pradip Tanmay	BSC - I	CBM	Wayare	
16	Pandey Bipin Divya	BSC - II	CBZ	Donadut	
17	Raut Prabhakar Mansi	BSC - III	CBM	Meant	
18	Roria Singh Ranvir Madhavi	BSC - II	CBZ	The state of the s	
19	Shinde Vijay Akansha	BSC - I	CBZ	Nehmele	
20	Singh Rakesh Divya	BSC - II	CBM	Tingh	

Shri Shivaji Education Society Amravati'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 2023in 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, Coordinator, Mushroom Cultivation Certificate Course (skill based program) learned about the importance, medicinal and nutritional values of the edible mushroom for humankinds 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 anticancerous, 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













Workshop on Mushroom Cultivation – Day 2













Fruiting Body of Oyster Mushroom – Day 15









Dr.R.H.Mahakhode Course Co-ordinator

ACTION TAKEN REPORT

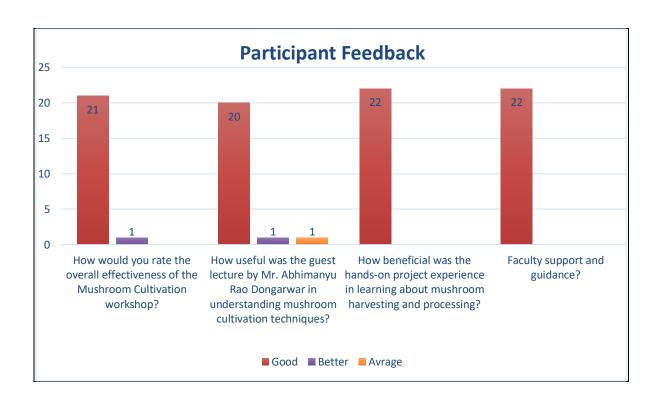
The Department of Botany, Shri Shivaji Science College, Nagpur, held a two-day workshop on 'Mushroom Cultivation' on March 23-24, 2023. The workshop, part of the Life Long Learning and Extension program, featured Mr. Abhimanyu Rao Dongarwar of Sky Mushrooms. Students learned about various mushroom cultivation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

FEEDBACK FORM

Sr.	Question	Response			
No.		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?				

Dr.R.H.Mahakhode Course Coordinator

Mahakhode



Dr.R.H.Mahakhode
Course Coordinator

Signature of IQAC Coordinator Internal Quality Assurance Cell

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Signature of Principal

Principal

S. S. E. S. Amravati's Science College, Nagpur.