

Shri Shivaji Education Society Amt's Science College, Congress Nagar, Nagpur

**DEPARTMENT OF BOTANY**  
**Organized**  
**Certificate Course on Mushroom Cultivation**  
**Session 2023-2024**



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**

**2023-2024**

**ABOUT COURSE**

- Extensive Sessions & 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

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

**Department of Botany**  
SKILL BASE PROGRAMME (2023-2024)  
Certificate Course: Mushroom Cultivation

## **Notice**

Date: 03/11/2023

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 2023-24. Interested students of B.Sc. Part I, Part II & Part III should registered themselves in early and contact to the Course Coordinator Dr. R. H. Mahakhode immediately.

Course	Admission Fees
Mushroom Cultivation	Rs. 500/-

*R. Mahakhode*

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 (2023-2024)**  
**Certificate Course: Mushroom Cultivation**  
**List of admitted students**

<b>Sr. No</b>	<b>Name of Students</b>	<b>Sr. No</b>	<b>Name of Students</b>
1	Admane Tanvi Ravindra	20	Nakhale Mansi Nagesh
2	Bangadkar Megha Sanjay	21	Nagpure Gayatri Tejlal
3	Bambal Aishwarya Pramod	22	Patil Chaitali Sandeep
4	Bisen Minal Shankar	23	Rajput Madhura Chandrashekhar
5	Bhandarkar Toral Suresh	24	Raut Sanika Vilas
6	Borkar Sejal Rajesh	25	Satpute Sanvay Sanjay
7	Burade Janhavi Narendra	26	Samrit Smita Arvind
8	Chirkute Anushree Vijay	27	Siingh Riya Virendra kumar
9	Chaudhari Ketaki Prakash	28	Shende Kasak Pravin
10	Dorle Yash Sunil	29	Solanki Mohak Hitesh
11	Durbule Rasika Rajesh	30	WasekarJiwak Dilip
12	Fiske Vedanti Jagdish	31	Waghmare Aditya Anand
13	Ghangare Priyanka Liladhar	32	Wankhede Shreya Dnyaneshwar
14	Ghaturle Grishma Vinod	33	Walke Devyani Ratnakar
15	Gurnule Madhavi Dhanraj	34	Wasnik Aakanksha Lahanu
16	Jadhao Ekta Lokhande	35	Yadav Dipesh Gyaneshwar
17	Kolhe Chetan Sanjay	36	Yadav Soumya Sunil
18	Kowe Rajshree Parmanand	37	Zade Akanksha Sanjay
19	Mahajan Bhumi Sudhakar	38	Zadgaonkar Avanti Anirudha

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

Department of Botany  
SKILL BASED PROGRAMME (2023-2024)  
Certificate Course: Mushroom Cultivation

Guest Lecture Attendance 22/03/2024

Sr. No	Name of Students	Signature
1	Admane Tanvi Ravindra	
2	Bangadkar Megha Sanjay	
3	Bambal Aishwarya Pramod	
4	Bisen Minal Shankar	
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9	Chaudhari Ketaki Prakash	
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11	Durbule Rasika Rajesh	
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13	Ghangare Priyanka Liladhar	
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35	Yadav Dipesh Gyaneshwar	
36	Yadav Soumya Sunil	
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38	Zadgaonkar Avanti Anirudha	

Dr. R. H. Mahakshode  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440017

**Shri Shivaji Education Society Amravati's  
SCIENCE COLLEGE, Congress Nagar, Nagpur  
Department of Botany  
Organized  
Skill- Based Mushroom Cultivation Certificate Course  
Session 2023-24**

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**REPORT**

Department of Botany organized Skill Based Programme under Department of Life Long Learning and Extension, RTM Nagpur University, Nagpur for the session 2023 -2024 on Mushroom Cultivation. Botany Department signed MOU with Organo Mushroom, Nagpur on 2<sup>nd</sup> March 2024. Under this MOU department was organized a training program for the students of Bachelor of Science & Master's of Science. The purpose of Skill Based Programme to develop Entrepreneurship Skill, Nutritional Awareness, Scientific Inquiry, Career Exploration and Self Employment for the students. The duration of the course is 45 hrs. Total 38 Students participated in this program. Department of Botany signed MOU with Organo Mushroom, Nagpur. The registered students under this course attend lectures; practical's and hands on training on mushroom cultivation. The lectures were conducted on different topics entitled Introduction and Identification of Mushroom and their types, Inoculation and Sterilization techniques Mushroom Cultivation techniques, Substrate preparation, Incubation phase, Environmental conditions, Fruiting & Harvesting, Challenges and solutions, Market Potential and Social Impact of Mushrooms. Hands on Session were taken from 27<sup>th</sup> March 2024 to 2<sup>nd</sup> April 2024. Registered students visited to Organo Mushroom Farm.

The student participated in hands-on training on mushroom cultivation. Through this training, students learned about fungal biology, sustainable farming practices. They engaged in various stages of the cultivation process where students prepared substrates, inoculated them with mushroom spawn, Bag casing involves adding a layer of spawns inside the cultivation bags, Pinning refers to the stage where tiny mushroom primordia know as pins to start from the surface of casing layer and maintained optimal conditions for mycelium growth. Humidity, Temperature, Fresh Air Exchange monitoring and adjusting these conditions teach students the importance of precision and care in cultivation process throughout the training, strict hygiene and safety protocols were emphasized to prevent contamination. Students observed the fruiting and harvesting stages, gaining insights into both the scientific and practical aspects of

mushroom farming. Students experience that session was more informative and Interactive. At the end students gave their feedbacks and explained how they are benefitted.

Chief Guest of the program was Mrs. Priya Anilkumar Bavaskar, Founder and Director, Organo Mushroom explained the various techniques of mushroom cultivation. Prof. M.P. Dhore, Principal guided the students about their overall development by learning several skills in hand on training in mushroom cultivation. We would like to express our heartfelt gratitude for their unwavering support and encouragement in providing valuable Hands on learning experiences to all participants. Under visionary leadership and constant motivation of Prof R. N. Deshmukh, Head of the Department, your guidance and efforts in providing students with necessary resources, expertise and passion for sharing knowledge have illuminated the path throughout this journey. Dr. R. H. Mahakhode, Course Coordinator, Mushroom Cultivation Certificate Course (skill based program) guided the students about the importance, medicinal and nutritional values of the edible mushroom for humankind and also developed the employment skill among the students.

Prof P.S. Tiwari, Dr. R.P. Sonwalkar, Dr. S.S. Deshmukh Ms. Shruti Agrawal, Ms. Aishwarya Zure and Non -Teaching staff with their cooperation the activity has been successfully implemented and making programme grand success.

Registered students were visited to Organo Mushroom Lab. on 6<sup>th</sup> April after the completion of Hands on training on mushroom cultivation. Students were given the projects in a group on different topics of mushroom cultivation technique. The certificate course was completed by taking examination of the students. Theory question paper is of 50 Marks and it contains 25 objective type questions and each carries 2 marks. Practical question paper is of 30 marks and carries 5 marks each.



## Lectures conducted by Faculty & Guest on Mushroom Cultivation



## Inoculation and Sterilization Technique



## Preparation of Substrate, bag casing and pinning training session





## Incubation phase, Primordial stage, Fruiting and Harvesting



## Students visited to ORGANO MUSHROOM Farm



*Mahakhode*

**Dr. R.H. Mahakhode**  
**Course Coordinator**

## **ACTION TAKEN REPORT**

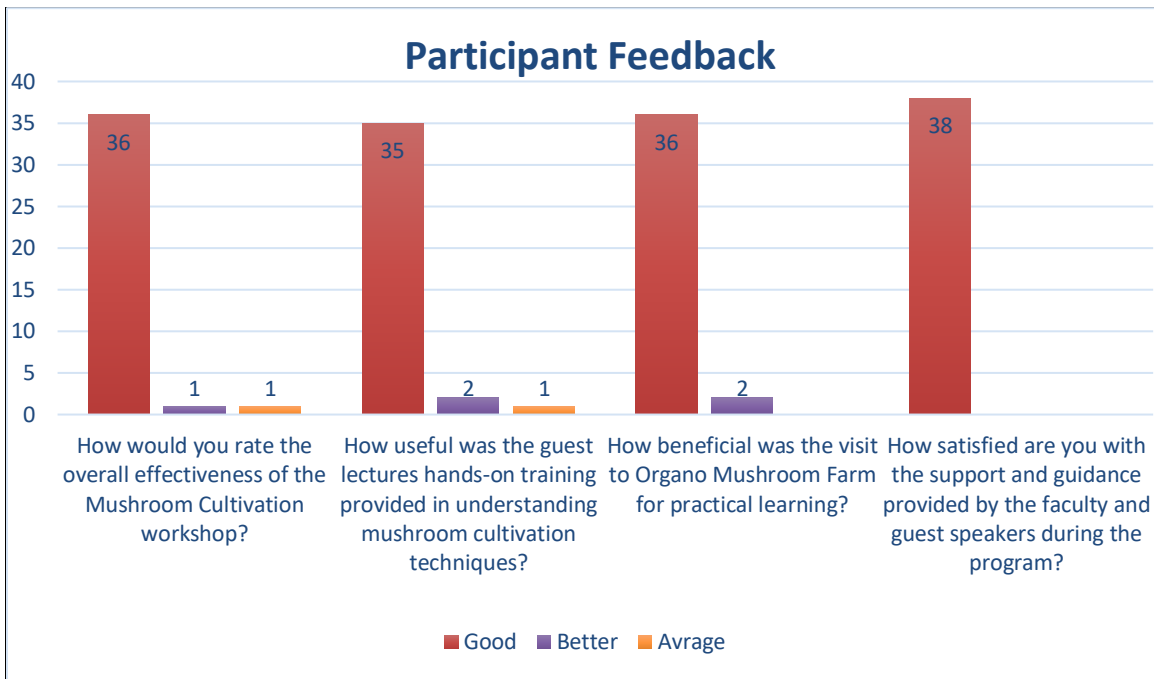
The Department of Botany, Shri Shivaji Science College organized a Skill Based Programme on Mushroom Cultivation for the session 2023-2024. An MOU was signed with Organo Mushroom, Nagpur, on March 2, 2024, to provide training for B.Sc. and M.Sc. students. The 40-hours course covered various aspects of mushroom cultivation, including substrate preparation, inoculation, and harvesting, and included hands-on training. Students visited Organo Mushroom Farm and engaged in practical sessions, learning about fungal biology and sustainable farming practices. The program concluded with a project submission and examination. Mrs. Priya Anilkumar Bavaskar, Founder of Organo Mushroom, delivered a keynote address, and the event was supported by faculty and staff, highlighting its success in developing students' skills and knowledge.

## **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 lectures hands-on training provided in understanding mushroom cultivation techniques?			
3)	How beneficial was the visit to Organo Mushroom Farm for practical learning?			
4)	How satisfied are you with the support and guidance provided by the faculty and guest speakers during the program?			

*R. H. Mahakhode*

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



*Mahakhode*

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

*R.H. Mahakhode*

Signature of IQAC Coordinator  
 Internal Quality Assurance Cell  
 (IQAC)

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



*Mahakhode*

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