

# सावित्रीबाई फुले पुणे विद्यापीठ (पूर्वीचे पुणे विद्यापीठ)

दूरध्वनी क्रमांक :

०२०-२५६९१२३३

५६०१२५७

५६०१२५८

५६०१२५९



शैक्षणिक विभाग

गणेशखिंड, पुणे-४११ ००७

टेलिग्राफ : 'युनिपुणे'

फॅक्स : ०२०-२५६९१२३३

वेबसाइट : [www.unipune.ac.in](http://www.unipune.ac.in)

ई-मेल : [boards@unipune.ac.in](mailto:boards@unipune.ac.in)

[dyracademic@unipune.ac.in](mailto:dyracademic@unipune.ac.in)

संदर्भ क्र. : CBS/344

दिनांक : 13/05/2017

प्रति,

मा. प्राचार्य,

समाजश्री प्रशांतदादा हिरे आर्टस्, सायन्स

व कॉमर्स महाविद्यालय,

नामपूर, ता. बागलाण,

नाशिक-४२३ २०४

विषय:— Certificate course in 'Edible Mushroom Cultivation, Marketing and Consumption' अभ्यासक्रमाबाबत...

महोदय,

उपरोक्त विषयास अनुसरून आपणास कळविण्यात येते की, विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपल्या महाविद्यालयातील आपण सुचवलेल्या Certificate course in 'Edible Mushroom Cultivation, Marketing and Consumption' या विज्ञान व तंत्रज्ञान विद्याशाखेअंतर्गतच्या सहा महिन्याकरिताच्या प्रमाणपत्र अभ्यासक्रमास खालील नमूद केलेल्या तपशीलानुसार शैक्षणिक वर्ष २०१७-१८ पासून मान्यता देण्यात येत आहे. याची कृपया नोंद घ्यावी.

Course Name	Certificate course in 'Edible Mushroom Cultivation, Marketing and Consumption'	
1	Intake Capacity of Students	30 Students
2	Duration of Course	6 Months
3	Eligibility	Minimum 12 <sup>th</sup> Science
4	Course fee per student	Rs. 5000(Rs. Five Thousand Only) (Category & sub-category)
5	Approval Year	2017-2018



Mahatma Gandhi Vidyamandir's  
Samajshree Prashantdada Hiray Arts, Science and Commerce College,  
Nampur, Tal. Baglan (Nashik) 423204

Affiliated to Savitribai Phule Pune University, Pune  
ID No. PU/NS/ASC/028 (1984) NAAC Re-accredited B grade Phone:  
02555-234316, Fax-02555-23215, Email-sphnampu@gmail.com,  
Website: <http://mgv.org.in/nampurcollege/>



MAHATMA GANDHI  
VIDYAMANDIR, NASHIK

### Certificate Course

In

“Edible Mushroom Cultivation, Marketing and Consumption”

Sanctioned by

Savitribai Phule Pune University

(Education Department: (Ref. No.: CBS/344; Dated: 13/05/2017, AY: 2017-2018)

Organized/Conducted by

Department of Botany

Academic Year: 2017-2018

Duration: 6 Months, 1<sup>st</sup> September 2017 to 28<sup>th</sup> February 2018

Advisory Committee

Dr. D. F. Shirude (Principal)

Co-ordinator

Dr. D. S. Pagar

Member

Dr. M. D. Ahire (Head of Department)

Registration Fees:- NA

### **ABOUT THE INSTITUTION**

Mahatma Gandhi Vidyamandir, Malegaon Camp one of the leading educational institution was established in 1952, under the dynamic and visionary leadership of Late Karmaveer Bhausaheb Hiray, an educationalist and Ex-Revenue minister of the then Bombay Province, with the sublime object of serving masses by spreading education among them. After him Late Loknete Vyankatraoji Hiray took over to the charge and responsibility of the institution. Being a dynamic personality with great determination and

vision, he constructively devoted his energy for providing higher education to the masses. Their mission has been carried forward by Hon'ble Smt. Pushpatai Hiray, (Former Minister of Health Gov. of Maharashtra) & Hon'ble Samajshree Prashant Dada Hiray, (Former Minister of State for Transport and Protocol) and these are efficiently managing the institution since 1980.

Dr. Apporva Hiray, Former MLC (Teacher's constituency, Gov. of Maharashtra) and Dr. Advay Hiray being the representatives of new generation have emphasized on the technical development and the professional education in the institution.

### ABOUT THE COLLEGE

Samajshree Prashantdada Hiray Arts, Science and Commerce College, Nampur, Dist. Nashik (Maharashtra) is one of the leading college affiliated to Savitribai Phule Pune University, Pune. The college established in June 1984 has a congenial atmosphere to provide facility to study UG as well as PG courses in various subjects. The college has on its rolls, more than 1200 students in the college. We are very proud to say that such college run in a rural area has a facility to teach UG courses in Botany, Chemistry, Zoology, Physics, Mathematics, Geography, Marathi, Hindi, Political Science and Economics.

Apart from meeting the conventional courses and aims of all educational institutes, we have sought to train students to unlearn the old and constantly renew and reinvent themselves, in response to the changing environment. The values they absorb ensure that their knowledge and skills are used not only for their personal enrichment, but also for the service of the society.

### IMPORTANCE OF MUSHROOM CULTIVATION

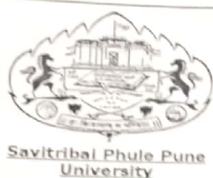
Mushrooms are being used as food since time immemorial. These have been considered as the delicacy. From the nutrition point of view mushrooms are placed between meat and vegetables. These are rich in protein, carbohydrate and vitamins. Mushrooms are low in calorific value and hence are recommended for heart and diabetic patients. They are rich in proteins as compared to cereals, fruits and



vegetables. In addition to proteins (3.7 %), they also contain carbohydrate (2.4 %), fat (0.4 %), minerals (0.6 %) and water (91 %) on fresh weight basis. Mushrooms contain all the essential nine amino acids required for human growth. Mushrooms are excellent source of thiamine (Vitamin B1), riboflavin (B2), niacin, pantothenic acid, biotin, folic acid, vitamin C, D & K which are retained even after cooking. Since Mushrooms possess low caloric value, high protein, high fibre content and high K: Na ratio, they are ideally suited for diabetic and hypertension patients. They are also reported to possess anticancer activities. India is primarily agriculture based country blessed with varied agro-climate, abundance of agricultural waste and manpower, making it most suitable for cultivation of all types of temperate, subtropical and tropical mushrooms. It can profitably be started by landless farmers, unemployed youths, and other entrepreneurs. It requires less land as compared to other agricultural crops and is basically an indoor activity. These are the ideal tools for recycling the agricultural wastes which otherwise may pose problem of disposal and atmospheric pollution. Therefore, mushroom cultivation is not only of economic importance but also has important role to play in integrated rural development programme by increasing income and self-employment opportunities for village youths, woman folk and housewives to make them financially independent.



Edible Mushrooms



Mahatma Gandhi Vidyamandir's  
**Samajshree Prashantdada Hiray Arts, Science and Commerce College,**  
**Nampur, Tal. Baglan (Nashik) 423204**  
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### **Certificate Course**

In

**“Edible Mushroom Cultivation, Marketing and Consumption”**

Sanctioned by

Savitribai Phule Pune University

(Education Department: (Ref. No.: CBS/344; Dated: 13/05/2017, AY: 2017-2018)

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Academic Year: 2017-2018

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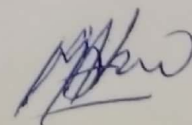
Sr. No.	Syllabus	Name of the Faculty
	<b>Credit-I (15)</b>	
1	Mushroom: Introduction and General History	Dr. D. S. Pagar & Dr. M. D. Ahire
2	Edible and Poisonous Mushrooms	
a	Edible Mushrooms with suitable examples	
b	Poisonous Mushrooms with suitable examples	
c	Difference between edible and poisonous mushrooms	
3	Nutritional and Medicinal Importance of Mushrooms	
a	Nutrient composition of Button, Oyster and Paddy Straw Mushrooms	
b	Comparative Nutritional Values – Vegetables and Mushrooms Importance mushrooms – Nutritional, Medicinal & Others	
c	Importance mushrooms – Nutritional, Medicinal & Others	

4	Present status of Mushroom Cultivation	
a	Types of Mushroom Cultivation	
b	Scenario of Mushroom Cultivation in different state	
c	Future scope of mushroom industry in India	
d	Recipes of edible mushrooms	
	<b>Credit-II (15 L)</b>	
5	Steps in mushroom growing	
a	Mushroom farm structure, Design, Layout	
b	Spawn-Principles and Techniques of Spawn production	
c	Principles & Techniques of compost and composting	
d	Spawning and methods of spawning	
e	Casing after care	
f	Marketing channels, time of scale, grading, packing transport and project proposal preparation.	
6	Management of disease, competitors, pest and nematodes in mushroom.	
7	Cultivation technology of speciality mushroom cultivation of <i>Pleurotus</i> species the Oyster Mushroom.	
8	Post- harvest handling and preservation of Mushroom	
	<b>Credit-III(15L.) Practicals</b>	
1	Preparation of Spawn for Mushroom Cultivation	
2	Cultivation of <i>Pleurotus</i> Mushroom	
3	Preparation of Mushroom Recipes	

### Mushroom Cultivation:

### Outcomes of the Course

1. Mushroom is a great demand in society due to its nutritional values
2. Students get opportunity to be familiar with such value based certificate course
3. To bring out the possibilities of self-employment
4. This course is helpful to students as well as society



HEAD

DEPARTMENT OF BOTANY  
S.P.H. Arts, Sci. & Com. College  
Nampur, Tal. Baglan (Nasik)



# Certificate Course in Edible mushroom

## Cultivation, marketing & consumption

List of students : 2017-2018 (Admitted)

Duration : 6 Months, September 2017 to February 2018

Sr.No	Class	Name of the student	mobile No.	Roll No
1	F.Y.B.Sc	Dipali Anil Desale	9075327754	133
2	F.Y.B.Sc	Nilima Yashwant Desale	8530699947	134
3	F.Y.B.Sc	Ashwini Vishwas Dhodje	7775856017	135
4	F.Y.B.Sc	Nayana Gubhau Dhondje	9112861124	136
5	F.Y.B.Sc	Nutan Prakash Dhondje	8605704613	137
6	F.Y.B.Sc	Pallavi Shantaram Dhondje	8669807259	138
7	F.Y.B.Sc	Swami Ravindra Dhondje	7038966518	139
8	F.Y.B.Sc	Paneri Bhausabeb Gangurde	9130668947	141
9	F.Y.B.Sc	Ashwini Subhash Jadhav	8698916319	145
10	F.Y.B.Sc	Nikita Vijay Jadhav	8605106594	146
11	F.Y.B.Sc	Pratiksha Nirvutti Jadhav	9850901610	147
12	F.Y.B.Sc	Amol Vishwanath Jagtap	7773950184	149
13	F.Y.B.Sc	Ashwini Dadaji Kakade	9921593085	150
14	F.Y.B.Sc	Madhuri Kailas Kakade	8605375085	151
15	F.Y.B.Sc	Bhagyashree Dipak Kapadnis	9503321565	153
16	F.Y.B.Sc	Yogana Rakesh Kapadnis		155
17	F.Y.B.Sc	Chetana Sharad Khairnar	8928956072	156
18	F.Y.B.Sc	Nilesh Ramesh Khairnar	8308317503	158
19	F.Y.B.Sc	Pooja Sudhakar Lad	8806031595	160
20	F.Y.B.Sc	Kavita Nimba Mohite	9421507077	164
21	F.Y.B.Sc	Dipali Vishwas Nikam		168
22	F.Y.B.Sc	Neha Sopan Pagar	976412878	169
23	F.Y.B.Sc	Nitin Sanjay Patil	8421701124	170
24	F.Y.B.Sc	Priyanka Vikram Pawar	9921487376	175
25	F.Y.B.Sc	Vishwanath Sanjay Pawar	9527242697	177
26	F.Y.B.Sc	Rajani Ramji Rajkor	8806988095	178
27	F.Y.B.Sc	Shital Vittal sawant		181
28	F.Y.B.Sc	Jayashree Dayaram Wagh	7775825346	189
29	F.Y.B.Sc	Prashant Nimba Sonawane	7875385693	186
30	F.Y.B.Sc	Jayesh Prabhakar More		165

(Dr. D.S. Pagar)  
Coordinator

Dr. D. F. Shirude  
HEAD  
DEPARTMENT OF BOTANY  
S.P.H. Arts, Sci. & Comm. College  
Nampur, Tal. Baglan (Nashik)

Dr. D. F. Shirude  
Principal

Samajshree Prashantdada Hiray  
Arts, Sci. & Comm. College  
Nampur Tal. Baglan (Nashik)

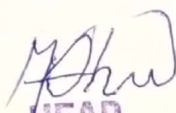
Savitribai Phule Pune University, Pune

M.G. Vidyamandir's  
Samajshree Prashantdada Hiray Arts, Science & Commerce College, Nampur  
Department of Botany  
Certificate Course in "Edible Mushroom Cultivation, Marketing and Consumption"

Academic Year: 2017-2018

**Duration:** 6 Months, September 2017 to February 2018 (38 Lectures)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
04.09.2017	05.09.2017		07.09.2017		
11.09.2017		13.09.2017			
18.09.2017		20.09.2017			23.09.2017
25.09.2017			28.09.2017		
	03.10.2017		05.10.2017		07.10.2017
	10.10.2017		12.10.2017		14.10.2017
20.11.2017		22.11.2017	23.11.2017	17.11.2017	25.11.2017
	28.11.2017		30.11.2017		
	05.12.2017			08.12.2017	09.12.2017
	12.12.2017			15.12.2017	
	19.12.2017			22.12.2017	
	26.12.2017			29.12.2017	
				05.01.2018	
15.01.2018				19.01.2018	
			25.01.2018		27.01.2018
05.02.2018			08.02.2018		

  
**HEAD**  
DEPARTMENT OF BOTANY  
S.P.H. Arts, Sci. & Comm. College  
Nampur, Tal. Baglan (Nasik)



Sr. No. 23



Savitribai Phule Pune  
University

Mahatma Gandhi Vidyamandir's  
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MAHATMA GANDHI  
VIDYAMANDIR, NASHIK

Certificate Course in  
“Edible Mushroom Cultivation, Marketing and Consumption”  
**CERTIFICATE**

This certificate is awarded to **Nitin Sanjay Patil** of Class F.Y.B.Sc for successful completion of the Certificate Course in “Edible Mushroom Cultivation, Marketing and Consumption” from 1<sup>st</sup> September 2017 to 28<sup>th</sup> February 2018 organized by Department of Botany, Samajshree Prashantdada Hiray Arts, Science & Commerce College, Nampur.

Dr. D. S. Pagar

Co-ordinator

Dr. M. D. Ahire

Head of the Department

Dr. D. F. Shirude

**PRINCIPAL**  
Samajshree Prashantdada Hiray  
Arts, Sci. & Comm. College  
Nampur, Tal. Baglan (Nashik)