

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

ई-मेल : boards@unipune.ac.in

dyracademic@unipune.ac.in

दिनांक : 13/05/2017

संदर्भ क्र. : CBS/344

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 th Science
4	Course fee per student	Rs. 5000(Rs. Five Thousand Only) (Category & sub-category)
5	Approval Year	2017-2018



 Savitribai Phule Pune University	<p>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/</p>	 MAHATMA GANDHI VIDYAMANDIR, NASHIK
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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)

Organized/Conducted by

Department of Botany

Academic Year: 2018-2019

Duration: 6 Months, 1st September 2018 to 28th February 2019

Advisory Committee

Dr. D. F. Shirude

Principal

Head of Department

Dr. M. D. Ahire

Coordinator

Dr. D. S. Pagar

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 1300 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



[Signature]
HEAD
 DEPARTMENT OF BOTANY,
 S.P.H. Arts, Sci. & Comm. College,
 Nampur, Tal. Baglari (Nasik)



Mahatma Gandhi Vidyamandir's
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MAHATMA GANDHI
VIDYAMANDIR, NASHIK

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Sr. No.	Syllabus	Name of the Faculty
	Credit-I (15)	
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	

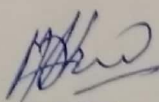
4	Present status of Mushroom Cultivation	
a	Types of Mushroom Cultivation	
b	Scenario of Mushroom Cultivation in different state	
c	Future scope of mushroom industry in India	
d	Recipes of edible mushrooms	
	Credit-II (15 L)	
5	Steps in mushroom growing	
a	Mushroom farm structure, Design, Layout	
b	Spawn-Principles 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	
	Credit-III(15L.) Practicals	
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

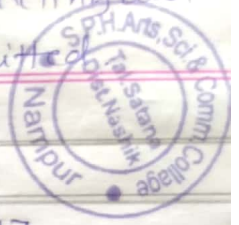



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 S.P.H. Arts, Sci. & Comm. College
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MAV's S.P.H. Arts, science & Commerce College, Nampur, Tal. Baglan
Certificate course in "Edible Mushroom Cultivation, Marketing and
Consumption

Department of Botany (A.Y. 2018-2019) Admitted

Duration 6 months : September 2018 to February 2019)



Sr.No	Roll No	Name of the student	class	mobile No.
1	88	Ahire Bhavna Bhagwan	F.Y.B.Sc	9421606317
2	70	Ahire Nalini Eknath	F.Y.B.Sc	9420706723
3	84	Ahire Pallavi Bajirao	F.Y.B.Sc	9970037546
4	17	Ahire Lalita Arun	F.Y.B.Sc	8605369636
5	66	Bhadane Madhuri Ravindra	F.Y.B.Sc	9673416869
6	65	Dhondge Vaishnavi Anil	F.Y.B.Sc	9421606138
7	68	Kapadnis Bhagvashri chhotu	F.Y.B.Sc	8975427256
8	61	Kakulte Vaishali Nanaji	F.Y.B.Sc	8600901778
9	63	Kapadnis Anushka Bhagwan	F.Y.B.Sc	9604764921
10	46	Khairnar Jayashri Madhar	F.Y.B.Sc	9422464510
11	95	Kapadnis Samudhi Sunil	F.Y.B.Sc	9011756369
12	87	Kakade Madhuri Pruthviraj	F.Y.B.Sc	9765489034
13	62	Kapadnis Bhagvashri Arun	F.Y.B.Sc	9765350215
14	98	Patil Ishwari Chandrakant	F.Y.B.Sc	7507093065
15	06	Pagar Rohini Jagannath	F.Y.B.Sc	9822001684
16	64	Pagar Jayashri Sanjerrao	F.Y.B.Sc	9960938264
17	50	Pagar Saloni Sanjay	F.Y.B.Sc	7744824390
18	96	Rajput Kalyani Nandraj	F.Y.B.Sc	9421559824
19	117	Sawala Ashita Sunil	F.Y.B.Sc	9921869720
20	68	Sonawane Sonali Dhanraj	F.Y.B.Sc	9270820376
21	78	Thakare Rohan Popat	F.Y.B.Sc	7743825797
22	58	Ahire Revati Dadaji	F.Y.B.Sc	9921869980
23	121	Ahire Laxman Khandu	F.Y.B.Sc	8380846303
24	119	Bhamare Harshal Dadaji	F.Y.B.Sc	7887777587
25	127	Ahire pratik Prabhakar	F.Y.B.Sc	7264914891
26	104	Bhamre Ganesh Santosh	F.Y.B.Sc	8999001087
27	107	Salunke Akash Ankush	F.Y.B.Sc	-----
28	122	Thakare Manmit Vijay	F.Y.B.Sc	7385758268
29	102	Desale Ashwini Nimba	F.Y.B.Sc	8308084405
30	136	Pawar Gaurav Arun	F.Y.B.Sc	8999326789

(Dr. D.S. Pagar)
Coordinator

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DEPARTMENT OF BOTANY
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MAHATMA GANDHI
VIDYAMANDIR, NASHIK

Certificate Course in
"Edible Mushroom Cultivation, Marketing and Consumption"

CERTIFICATE

This certificate is awarded to **Thakare Rohan Popat** of Class F.Y.B.Sc for successful completion of the Certificate Course in "Edible Mushroom Cultivation, Marketing and Consumption" from 1st September 2018 to 28th February 2019 organized by Department of Botany, Samajshree Prashantdada Hiray Arts, Science & Commerce College, Nampur.

Dr. D. S. Pagar
Subject Incharge

Dr. M. D. Ahire
Head, Co-ordinator

Dr. D. F. Shirude

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