

Mush Room Cultivation Technology

BABU JAGJIVAN RAM GOVERNMENT DEGREE COLLEGE

Department of Botany

Certification Courses

Introduction: In-order to uplift your career, academic degree alone is not sufficient, under such circumstances it is recommended to opt certification courses. These courses are the one which validates technical expertise of a person regarding the subject. They hold wide scope and open better opportunities for the aspirants.

They are available in different streams. To clear these certifications you need to complete theoretical understanding plus the hands-on experience of services and the topics, included in the course. While completing the graduation or after completion of graduation one can go for certification courses, which indeed will weigh your resume to achieve a better job opportunity in the market.

Objectives: A certification course, is a non-governmental program that does two things:

1. Delivers an assessment based on industry knowledge, independent from training courses or course providers.
2. Grants a time-limited credential to anyone who meets the assessment standards.
3. In some cases a certification examination may be used as a component of either state or national licensure.

Outcomes:

1. Gain a competitive advantage- Having trained that your competitors don't can set you apart when pursuing jobs. Stay on top of trends and learn how to use that platform or resource before it becomes a household name.
2. Increase Efficiency
3. Increase Earning potential
4. Expand knowledge and skills
5. Build Professional Credibility

BJR GOVERNMENT DEGREE COLLEGE, HYDERABAD
DEPARTMENT OF BOTANY
CERTIFICATE COURSE ON
MUSHROOM CULTIVATION TECHNOLOGY-2015-2016



Objectives:

The potential of mushroom farming is to generate new employment opportunities .

Outcomes:

Mushroom farming is a sustainable farm practice that offers a remarkable skill development benefits

Duration:

The course is scheduled from Dec2015-Feb-2016

Registration:

Register on or before Nov 25th-2015.

Contact:

Mrs.D.Narmada
Department of Botany



BJR GOVERNMENT DEGREE COLLEGE, HYDERABAD
DEPARTMENT OF BOTANY

CERTIFICATE COURSE IN
MUSHROOM CULTIVATION TECHNOLOGY

About the course

- The certificate course “Mushroom Cultivation Technology” is designed with a view to improve the students to gain Hands on experience in the concern topic, as it provides Entrepreneurship.
- The certificate course is offered to all the UG I,II and III year students from all disciplines
- The course is of 60 hrs duration and runs for 30 days.

Objectives of the course

- The potential of mushroom farming is to generate new employment opportunities
- what could be better than learning about growing your own food, feeding your family, and selling the extra to line your family’s coffers!

Outcome of the course

By the end of the course

- The students can gain Hands on experience in the concern topic, and it provides Entrepreneurship.
- Regardless of all of the disadvantages, Mushroom farming is a sustainable farm practice that offers a remarkable skill development benefits.

Course syllabus

1. Introduction

- How Fungi are Named: Review of the system of plant identification
- Characteristics of all Fungi
- Three Fungi Kingdoms: Zygomycota, Basidiomycota and Ascomycota
- *Agaricus campestris* and *Agaricus bisporus*
- Distinguishing edible fungi, Mushroom structure, tell tale characteristics of the genus *Agaricus*, etc.
- History of Mushroom Cultivation

2. Spawn Production and Spawning and Making and Casing Beds

- Finding Spawn Supplies
- Overview of Spawn and Spawning
- Obtaining Smaller Quantities of Spawn
- The Process of Spawning
- Spawn Production; typical rye grain method
- Storing spawn, Growing Methods; Caves, bags, houses, outdoor ridge beds, troughs, etc
- Casing; biological process, characteristics of casing material, procedure
- Techniques; spawned casing, ruffling, scratching

3. Growing Conditions for Mushrooms and Pests, Diseases and Growing Mushrooms Outside

- Fungi Nutrition: carbon, nitrogen, essential elements, vitamins and growth factors
- Casing to Harvest of *Agaricus*
- Growing Indoors
- Environmental Control, equipment to measure and control the environment
- Overview of Pests, Diseases and Environmental Disorders

4. Harvesting, Storing and Using Mushrooms ,Marketing of Mushrooms

- Harvesting Buttons, Cups and Flats on *Agaricus bisporus*
- Fruiting patterns for *Agaricus bisporus* and other edible mushrooms
- Cool Storage of Mushrooms
- Freezing Mushrooms

- Dry Freezing Mushrooms
- Drying Mushrooms
- Canning Mushrooms
- Harvesting *Agaricus*; method of picking
- Handling *Agaricus* after harvest
- Controlled Atmosphere Storage
- Review of Marketing options for mushrooms
- Fresh Mushroom Sales
- Processed Mushroom Sales
- Production and Marketing of Oyster Mushroom and Straw Mushroom

Each lesson culminates in an assignment which is to be submitted to the college, marked by the tutors and returned to the students with any relevant suggestions, comments, and if necessary, extra reading


Suggested reading:-

- Growing Gourmet and Medicinal Mushrooms, Third Edition by Paul Stamets
- The Mushroom Cultivator : A Practical Guide to Growing Mushrooms at Home by Paul Stamets and J.S. Chilton
- Diseases and Pests of Mushrooms V. N. Pathak, Nagendra Yadav
- Modern Mushroom Cultivation V. N. Pathak, Nagendra Yadav & Maneesha Gaur
- Mushroom Production and Processing Technology V. N. Pathak, Nagendra Yadav .

Notice

Date:-7-11-2015

To UG I, II, III year students of all faculties it is inform that Department of botany is offering " Mushroom Cultivation Technology " Certificate Course Interested Students can go through the brochure attached with all details or contact Mrs.D.Narmada,Dept of Botany.


PRINCIPAL
B.J.R. Government Degree College
Vittalwadi, Narayanaguda,
Hyderabad-29, T.S.

Department of Botany

Mushroom Cultivation Technology Certificate Course

List of the students (2015-16)

<u>S.no</u>	<u>Roll No</u>	<u>Name of the Student</u>	<u>Group</u>
1	107015445001	Pawar Vandana	Bzc
2	107015445003	M.Anil	Bzc
3	107015445004	B.Swaroopaa Rani	Bzc
4	107015445006	Khaja Rehman Uddin	Bzc
5	107015445008	P.Indraja	Bzc
6	107015445009	V.Bala Krishna Chari	Bzc
7	107015445010	M.Ashok	Bzc
8	107015445011	V.Laxman	Bzc
9	107015445016	B.Gayatri Gopal	Bzc
10	107015445018	G.Shiva Kumar	Bzc
11	107015445021	M.Mounika	Bzc
12	107015445024	Syeda Samreen	Bzc
13	107015445503	G.Shiva Raj	Bzc
14	107015445505	A.Sukanya	Bzc
15	107015445507	N.Mamatha	Bzc
16	107015468007	Goushia Begam	Mpcs
17	107015468010	Syed Abdul Sameer	Mpcs
18	107015468022	Ruqia Khatoon	Mpcs
19	107015467003	Y.Bikshapathi	Mscs
20	107015467005	B.Bhavani	Mscs
21	107015401008	Md.Faheem Uddin	B.com [Gen]
22	107015401016	Md.Amer	B.com [Gen]
23	107015401024	Syed Toufeeq	B.com [Gen]
24	107015402006	Md.Syeed	B.com [Com]
25	107015402024	Ruksana Begum	B.com [Com]
26	107015156501	M.Bharath Kumar	BA
27	107015156506	G.Nagesh	BA
28	107015156510	K.Narasimha	BA
29	107015156513	K.Ramesh	BA
30	107015156518	K.Venkatash	BA



Babu Jagjivan Ram Government Degree College
Narayanaguda, Hyderabad. (T.S) 500029

REPORT ON CERTIFICATE COURSE 2015-16

1. Name of the Course: MUSHROOM CULTIVATION TECHNOLOGY
2. Department : BOTANY
3. Duration No. of hours -60HRS (30HRS Th & 30HRS Prac) No. of days -30days
4. Whether brochure containing details of curriculum, assessment, procedures, etc., is enclosed? YES
5. Number of students enrolled: 30 Students
6. Whether list of students is enclosed? (Yes/No): YES
7. Brief Report of the Certificate Course along with the outcome:

Objectives:

- The potential of mushroom farming is to generate new employment opportunities
- what could be better than learning about growing your own food, feeding your family, and selling the extra to line your family's coffers!

Report:

The certificate course is offered to all the UG I,II and III year students .30 students from all disciplines got enrolled and took the course. The course was offered from Dec-2015-Feb 2016,for a period of 30 days which includes theory and practical's ,each session is 2hrs duration after the college hours.

The high nutritional value of mushroom makes it is an ideal source of protein, vitamins and minerals. This alone should be reason enough for the us to encourage its widespread cultivation. Mushroom farming is the practice of growing mushrooms by using minimal space and nutrients .

Mushroom can be grown in different climatic conditions. In Indian conditions, three types of mushroom are grown widely, Button, Oyster and paddy straw Mushroom. Fresh Mushroom has a very short life therefore international trade is primarily in its processed form

Outcome:

- The students can gain Hands on experience in the concern topic, and it provides Entrepreneurship.
- Regardless of all of the disadvantages, Mushroom farming is a sustainable farm practice that offers a remarkable skill development benefits.

Signature of I/C of Dept.:.....

BABU JAGJIVAN RAM GOVERNMENT DEGREE COLLEGE

VITTALWADI, NARAYANAGUDA, HYDERABAD

Department of Botany

[Mushroom Cultivation Technology Certificate Course Examination]

Blueprint

Time: 2 hours

Max Marks: 50

Answer all the questions. Draw the diagrams where ever necessary.

Section-A Short Notes (All questions are compulsory)

3x10=30

1. *****

2. *****

3. *****

Section-B Essay type Questions (Answer any one)

1x20=20

A. *****

(Or)

B. *****

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BABU JAGJIVAN RAM GOVERNMENT DEGREE COLLEGE

VITTALWADI, NARAYANAGUDA, HYDERABAD

Department of Botany

[Mushroom Cultivation Technology Certificate Course Examination]

Time: 2 hours

Max Marks: 50

Answer all the questions. Draw well labelled diagrams where ever necessary.

Section-A Short Notes (All questions are compulsory)

3x10=30

1. Write the Importance of mushrooms
2. Give the Nutritional value of mushrooms
3. What are the different types of mushrooms

Section-B Essay type Questions (Answer any one)

1x20=20

A. Write in detail about the cultivation technology of oyster mushrooms

(Or)

B. Write in detail about the cultivation of milky mushrooms.

BABU JAGJIVAN RAM GOVERNMENT DEGREE COLLEGE, NARAYANAGUDA**Department of Botany****Mushroom Cultivation Technology Certificate Course****List of the students (2015-16)**

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5	107015445008	P.Indraja	Bzc	Indraja
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7	107015445010	M.Ashok	Bzc	Ashok
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22	107015401016	Md.Amer	B.com [Gen]	Amer
23	107015401024	Syed Toufeeq	B.com [Gen]	Toufeeq
24	107015402006	Md.Syeed	B.com [Com]	Syeed
25	107015402024	Ruksana Begum	B.com [Com]	Ruksana Begum
26	107015156501	M.Bharath Kumar	BA	Bharath
27	107015156506	G.Nagesh	BA	Nagesh
28	107015156510	K.Narasimha	BA	Narasimha
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