

CERTIFICATE COURSE IN BOTANY

ACADEMIC YEAR 2020-21

{FROM 5-2-2021 TO 10-3-2021}

DEPARTMENT OF BOTANY

Mushroom Cultivation

NAGARJUNA GOVERNMENT COLLEGE
(Autonomous), NALGONDA

RESOLUTION

Date : 01-02-2021

Departmental meeting on Botany Department is held on 01-02-2021 at 2 pm . The Dept. of Botany academic chairmanship of HOD Botany to discuss about offering of Certificate course on "Mushroom Cultivation " of duration 5 weeks (30 working days).

- It is resolved to offer Certificate course on "Mushroom Cultivation" with the duration of 5 weeks for B.SC (B.ZC) III Year students.
- It is resolved to frame syllabus for the Certificate course on "Mushroom Cultivation " .
- It is also resolved to distribute the teaching hours among the staff to teach the Certificate course.
- It is resolved to provide Certificates to successfully course Completed Students after Evolution.



Department of Botany
Nagarjuna Government College
NALGONDA

TO,
The principal,
Nagarjuna Govt. Degree college (A),
Nalgonda.

Date : 02-02-2021


Respected sir,

Subject: Seeking permission to start Certificate Course in Botany in our college
Req-Reg.

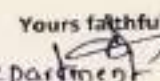
We the Department of Botany would like to start Certificate course on
"Mushroom Cultivation" in our college for the academic year 2021-22 for the B.Sc Life sciences
Students.

Hence, we are request you to permit us to start the Certificate Course .

Thanking you sir,


Permitted
Yash

Principal,
Nagarjuna Government College
NALGONDA - 508 001 (T.S.)

Yours faithfully

Department of Botany
Nagarjuna Government College
NALGONDA

STUDENT CIRCULER

NAGARJUNA GOVERNMENT COLLEGE (Autonomous), NALGONDA

Date :- 03-02-2021

CIRCULAR

Academic Year 2020-2021

All the B.Sc Life sciences students are here by informed that Dept. of BOTANY is organizing to offer Certificate course on " Mushroom Cultivation " from 05-02-2021 to 10-03-2021. All the students should utilize this course . Interested students contact the Coordinator.



Department of Botany
Nagarjuna Government College
NALGONDA


PRINCIPAL

Principal,
Nagarjuna Government College
NALGONDA - 508 001 (T.S.)

Certificate course syllabus

Mushroom Culture Technology

30 hrs

Unit – I

(15 Hours)

1. Introduction & history, Medical value of edible mushrooms, Poisonous mushrooms. Types of edible mushrooms available in India – Volvariella volvacea, Pleurotus citrinopileatus, Agaricus bisporus.
2. Cultivation Technology : Infrastructure; substrates (locally available) Polythene bag, vessels, Inoculation hook, Inoculation loop, low cost stove, sieves culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bags.
3. Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation- paddy straw, sugarcane trash, maize straw, banana leaves.
4. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production.

Unit – II

(15 Hours)

5. Storage : Short term storage (Refrigeration – upto 24 hours) Long term Storage (Canning, pickles, papads), drying, storage in salt solutions.
6. Nutritional value of Mushrooms: Proteins – amino acids, mineral elements nutrition- Carbohydrates, Crude fibre content – Vitamins.
7. Food Preparation: Types of food prepared from mushroom. Research Centres – National level and Regional level. Cost benefit ratio - Marketing in India and abroad. Export Value.

Aims of the Course:

- ❖ To enable the students to identify the edible and poisonous mushrooms.
- ❖ To provide hands-on training for the preparation of bed for mushroom cultivation and its harvesting, pests and diseases control and post harvesting management.
- ❖ To provide the students awareness about the marketing trends of Mushrooms.
- ❖ To give the students exposure to the experiences of experts in the field and to functioning mushroom farms.
- ❖ To help the students to learn a means of self-employment and income generation.

Course objectives:

- To facilitate self-employment.
- To know the nutrient value of mushroom.
- To study the morphology and types of Mushrooms.
- To know the spawn production technique.
- To aware the identification of edible and poisonous Mushrooms.
- To learn the prospects and scope of mushroom cultivation in small scale industry.
- To understand the Diseases. Post harvesting techniques of Mushrooms.

Course Outcome:

- Students can start small scale industry of Mushroom cultivation.
- Students study the morphology and types of Mushrooms.
- They are aware of the identification of edible and poisonous Mushrooms.
- Students will be able produce spawn on their own.
- Learned the prospects and scope of mushroom cultivation in small scale industry.
- Studied the technique of Mushroom cultivation.
- Understood the Diseases. Post harvesting techniques of Mushrooms.

Certificate Course Enrollment List

MUSHROOM CULTIVATION

List of Students

S.No	ROLLNO	Name of the student
1	19044028445001	A.Anusha
2	19044028445102	A.Lingaswamy
3	19044028/445103	A.Venkatesh
4	19044028445105	A.Nithya
5	19044028445106	A.Nandhini
6	19044028445107	A.Ramcharan
7	19044028445108	A.Suryaprakash
8	19044028445110	A.Vinay
9	19044028445111	A.Maneesha
10	19044028445112	A.Vamshi krishna
11	19044028445113	A.Venkatesh
12	19044028445115	B.Shivarani
13	19044028445116	B.Thirumalesh
14	19044028445117	B.Swetha
15	19044028445118	B.Shivashankar
16	19044028445119	B.Radhika
17	19044028445121	B.Sathyavathi
18	19044028445122	B.Chaitanya
19	19044028445123	B.Sandeep
20	19044028445124	B.Vamshi sai
21	19044028445125	B.Raviteja
22	19044028445127	B.Mounika
23	19044028445128	B.Akhil kumar
24	19044028445129	B.Shivakumar
25	19044028445130	B.Sathish
26	19044028445131	B.Uma
27	19044028445132	B.Hemalatha
28	19044028445133	B.Shiva
29	19044028445134	B.Pavithra
30	19044028445135	B.Mounika
31	19044028445136	B.Gopi
32	19044028445137	CH.Umesh
33	19044028445138	CH.Mahesh
34	19044028445140	CH.Shivani
35	19044028445141	CH.Sravan kumar
36	19044028445142	CH.Anjali
37	19044028445143	CH.Vamshi
38	19044028445144	CH.Geetha
39	19044028445145	CH.Navya
40	19044028445146	D.Mahesh

STUDENT ATTENDANCE

[illegible]

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NAGARJUNA GOVT. COLLEGE(A), NALGONDA, TELANGANA

Certificate

*This is to certify that, _____, Class/Group _____ of
Nagarjuna Government College Autonomous Nalgonda has successfully completed the
training for certificate course organised by Department of Botany on "Mushroom
Cultivation " during the Academic Year 2021-2022.*

Principal



