

P.B.SIDDHARTHA COLLEGE OF ARTS & SCIENCE:: VIJAYAWADA

Semester-wise Revised Syllabus under CBCS, 2020-21

Course Code: **BOTSEP02**

Offered to B.Sc. (BZC)

Domain Subject: BOTANY

Semester – V

Max. Marks: 40

Practical Hrs./Week : 3

Course 6C: MUSHROOM CULTIVATION

Type of the Course: Skill Enhancement Course (Elective: Practical),

Credits: 01

I. Course Outcomes: Students at the successful completion of the course will be able to:

CO1: Identify different types of mushroom.

CO2: Demonstrate preparation of pure culture of an edible mushroom.

CO3: Prepare compost and casing mixture.

CO4: Crop and harvest mushrooms.

CO5: Prepare value-added products.

CO-PO MATRIX							
CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1						H	
CO2						H	
CO3						H	
CO4						H	
CO5						H	

II: Practical (Laboratory) Syllabus: (30 Periods): Atleast 8 Practicals

1. Identification of different types of mushrooms.
2. Preparation of pure culture of an edible mushroom.
3. Preparation of mother spawn.
4. Production of planting spawn and storage.
5. Preparation of compost and casing mixture.
6. Demonstration of spawning and casing.
7. Hands on experience on cropping and harvesting.
8. Demonstration of storage methods.
9. Preparation of value-added products.(Pickle, Chips, Biryani, fritters)

III. Lab References:

1. Sushma Sharma Sapna Thakur Ajar Nath Yadav, 2018. Mushroom Cultivation: A Laboratory Manual, Eternal University, Sirmour, H.P.
2. Kadhila-Muandingi, N.P., F. S. Mubiana and K. L. Halueendo, 2012. Mushroom Cultivation: A Beginners Guide, The University of Namibia
3. Gajendra Jagatap and Utpal Dey, 2012. Mushroom Cultivation:Practical Manual, LAMBERT Academic Publishing, Saarbrücken, Germany
4. Deepak Som, 2021. A Practical Manual on Mushroom Cultivation, P.K.Publishers & Distributors, Delhi
5. Web sources suggested by the teacher concerned.

Sample Suggested Question Paper Pattern: Practicals

Time Allowed: Three hours

Max. Marks: 40

1. Demonstration of preparing pure culture/mother spawn 'A' 7 M
2. Preparation method for planting spawn and storage/compost and casing material 'B' 8 M
3. Demonstration of spawning and casing/storage and making a value- added product 'C' 5 M
4. Scientific observation and data analysis 4 x 3 = 12 M
- D. Edible/poisonous mushroom specimen/photograph
- E. Infrastructure/tool used in mushroom cultivation
- F. Material for compost/casing
- G. Storage practice/ a value-added product
5. Record 5 M
6. Viva Voce 3 M

Evaluation Scheme	Marks
One Major Experiment (Experiment No :)	15
One Minor Experiment (Experiment No :)	10
Slide Preparation, if any	5
Practical Record + Viva Voce	10
Total	40