CERTIFICATE COURSE IN MUSHROOM CULTIVATION

Objectives:

To enable student – To acquire Knowledge of Mushroom Cultivation

Duration of the Course:

Certificate: 6 months Diploma: 1 Year

Eligibility:

Any student enrolled in the degree program of the college.

Subjects covered under Certificate Course are Sr No. 1, 2 and 3	
NameofPaper	Credits
GC-MC-01T Mushroom Cultivation - I	06
GC-MC-02T Mushroom Cultivation - II	06
GC-MC-03P Practical and Project - I	06 (Lab Only)

Mushroom Cultivation-I

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6

Pass Percentage: 40%

Section-A

Unit-I - Introduction to specify Mushrooms, Status & scope of Mushrooms cultivation.

Unit-II – Isolation of pure mushrooms culture, Maintenances and presumption of Mushrooms culture.

Section-B

Unit III - Hang method of composting for button mushrooms

- -Short method of composting for button mushrooms
- -Introduction and cultivation techniques for oyster mushrooms
- -Introduction and cultivation techniques for shitake mushrooms
- -Economics of mushrooms cultivation.

Unit IV - Preparation of Mushroom value – added products

- Mushroom diseases and their management
- Pest management of mushrooms

Mushroom Cultivation-II

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6

Pass Percentage: 40%

Section-A

- Unit I Important features of edible fungi
 - Nutritional & Medicinal values of mushrooms
- Unit II Spawn preparation teachings
 - Biotechnological appearances for mushrooms
 - Strain improvement

Section-B

- **Unit III** Introduction and cultivation techniques for milky mushrooms
 - Paddy straw mushrooms
 - Crop management practices
 - Packaging and marketing of mushrooms.
- **Unit-IV** Mushroom nematodes and their management
 - Recycling of spent mushroom substrate
 - Post harvest shelf life of mushroom

Project & Practical-III

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6

Pass Percentage: 40%

Practical:

- Methodology of substrate pre treatment
- Preparation and composting of substrate
- Tissue culture, Master Culture and spawn preparation techniques
- Growth Studies in liquid medium

Project: Max Marks: 50

References

- (1) AcharyaK, RoyA and SarkarJ (2020) Mushroom Cultivation Technology. Techno World, New Delhi
- (2) Thakur T and Thakur M P (2015) Production Techniques of Tropical Mushrooms. Nirmal Publications, New Delhi.
- (3) Aneja K R and Mehrotra RS (2015) An Introduction to Mycology. New Age International Publishers, New Delhi