

ADD-ON COURSE ON MUSHROOM CULTIVATION TECHNOLOGY

Department of Botany, St. Xavier College (Autonomous) Ranchi

Under the aegis of IQAC

Patrons: Dr. Prabhat Kennedy Soreng, Dr. Ajay Kumar Srivastava

IQAC Convener: Dr. Shiv Kumar

Duration: 30 Hours

Teaching method: Hybrid mode

No. of Student intake: 30

Eligibility: interest to learn, students of any stream

Course fee: 2000

About the Course:

Mushroom cultivation is one of the promising and profitable enterprises that have gained popularity around the world. They are packed with essential vitamins, minerals and proteins. Mushroom cultivation plays an important role to improve the strength and livelihood of people through nutritional, medicinal and economic contributions.

Jharkhand is largely an agricultural state; it has tons of agro-waste annually. It has mushroom diversity. Due to unemployment people of Jharkhand migrate to other cities.

This add on course will be of immense benefits to students who wish to adopt mushroom cultivation as a means of self-employment.

Experts with several years of experience in growing mushrooms will run this course and give practical knowledge

| Units | Topics | Mode of teaching | Lecture hours |
|-------|--|------------------|---------------|
| I | Introduction to mushroom, life cycle, morphology | Hybrid | 3 |
| II | Mushroom identification, wild and cultivated | Hybrid | 3 |
| III | Mycelia culture technique | Practical | 3 |
| IV | Spawn preparation | Practical | 4 |

| | | | |
|-----|--|------------|---|
| V | Substrate preparation for mushroom cultivation | Th/Pr | 4 |
| VI | Field work | Field work | 1 |
| VII | Paddy straw Mushroom cultivation | Th/Pr | 6 |
| VII | Button mushroom cultivation | Th/Pr | 6 |

Suggested Readings

1. Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991)
2. Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
3. Swaminathan, M. (1990) Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
4. Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications, Delhi.
5. Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.

*

