

SEMESTER-II (Pool-A)

COURSE NAME : MUSHROOM BIOLOGY (CHOI-A35)

Number of Credit: - 02

Maximum marks: 50

Unit-I

Principles of Mushroom Biology; Introduction, concepts, types, uses of mushrooms, Edible, and poisonous mushrooms.

Unit-II

Global production: Agribusiness involving mushrooms, Global status, opportunities and constraints.

Unit-III

Mushroom Cultivation: Cultivation: Culturing, Preservation methods, Spawn production quality attributes, storage, transport of commercially important mushroom.

Unit-IV

Mushroom Biotechnology: Constraints in transformation, production of new varieties, Genomic and proteomic approaches.

Unit-V

Environmental & Medicinal aspects: Bioremediation using mushrooms. Production of nutraceuticals & value-added products.

Reference Books:

1. Mushroom Cultivation by Parveen Garg Techno World Press, Kolkata West Bengal.
2. Mushroom Cultivation Technology by Krishnendu Acharya, Anirpran Roy & Joy Sarkar, Techno World Publication Kolkata, West Bengal.
3. A Text Book on Mushroom Cultivation Theory and Practice by Ashok Agrawal, Yash Pal Sharma and Esha Jangra Newrays Publishing House New Delhi.
4. Mushroom Cultivation in India by B.C. Suman & V.P. Sharma Daya Publishing House-Delhi.

