

1st SEMESTER
AGRICULTURE TECHNOLOGY
(COMMERCIAL MUSHROOM CULTIVATION)
SKILL ENHANCEMENT COURSE (SEC)

CMC122S: COMMERCIAL MUSHROOM CULTIVATION – I: INTRODUCTION TO MUSHROOM SCIENCE

CREDITS: THEORY: 2, PRACTICAL: 2

Objectives: *To impart knowledge to students about the diversity and identification of mushrooms growing in the region and to acquaint them about the nutritional and medicinal value of mushrooms*

THEORY (2 CREDITS)

UNIT I

Overview of mushroom, characteristics and Classification types, description of different types of mushroom, present status.

Mushroom ecology: Habitat, nutrition, life cycle of button and oyster mushrooms, conservation and diversity; nutritional and medicinal importance of mushrooms, ethno-medicinal Importance of mushrooms.

UNIT II

Mushroom cultivation: (science and art, waste to wealth), round the year mushroom cultivation, life cycle, reproduction of mushrooms

Mushroom hunting, pre requisite, collection, description, and description of mushrooms

Poisonous mushroom, mushroom poisoning, symptoms of mushroom poisoning, precautions to avoid mushroom poisoning.

PRACTICALS (2 CREDITS)

- Acquaintance with the laboratory equipment's.
- Culture media preparation and sterilization techniques, Isolation of pure cultures.
- Mushroom collection from their natural habitat, isolation and preservation.
- Spore print development.
- Identification and preservations of mushroom specimen.
- Identification of poisonous mushrooms.