

An Add On Course on Mushroom Farming

Course description

This Add On course aims at providing technical knowhow of mushroom cultivation and entrepreneurship development among interested youths. The course plan has been designed to meet the theoretical and practical knowledge of mushroom farming and expected that the learner will get enriched with technical knowhow of the mushroom farming.

Course objective:

1. To provide technical knowhow of mushroom cultivation.
2. Entrepreneurship development among interested youths.

Key highlights

After completion of this course the learner could be a good mushroom farmer and would be able to develop self sustainable mushroom entrepreneurship.

Eligibility: 10th standard (HSLC Pass)

Duration of course: 75 days (30 hrs)

Course fee: 300/-

Name of teaching faculty

Dr. Tilak Ch. Dutta,

Mr. Dulu Moni Das, Assistant Professor, Botany Department, Digboi College

Dr. Dimpy Das, Assistant Professor, Botany Department, Digboi College

Name of Trainer: Dr. Tilak Ch. Dutta, HOD Botany Department, Digboi College

Course Co-ordinator: Dr. Dimpy Das, Assistant Professor, Botany Department, Digboi College.

Syllabus on Mushroom Farming

Paper – I (Theory) Marks - 70

Unit I

Introduction: History of mushroom cultivation; biology of mushroom; Types; Nutritional value; Medicinal value; Prospect of mushroom cultivation. 10

Unit II

Cultivation technology: Infrastructure and requirement; Spawn: types of spawn, mushroom bed preparation and factors affecting mushroom bed preparation; Paddy straw mushroom cultivation; Oyster mushroom cultivation; rearing conditions and sanitation. 30

Unit III

Harvesting: sanitation during harvesting; process of harvesting; Post harvest processing: Storage; long term and short term storage of mushroom; recipes from mushroom. 10

Unit IV

Disease and pest management: Pest and pathogens of mushroom; control measures; Integrated Pest Management (IPM). 10

Unit V

Marketing of mushroom: market demand; market channels; direct marketing and wholesale marketing. 10

Paper – II (Practical) Marks – 30

1. Identification of edible and poisonous mushroom.
2. Bed preparation for mushroom cultivation.
3. Spawn inoculation, storage of culture and maintenance of cultures.
4. Harvesting process.
5. Processing of mushroom.

Reference Book:

1. A textbook on mushroom cultivation: Theory and Practice, Aggarwal, A., Sharma, Y. P. and Jangra, E., Newrays Publishing House.
2. Mushroom Cultivation, Tripathi, D.P. (2005) , Oxford & IBH Publishing Co. Pvt.Ltd., New Delhi.

3. Mushroom cultivation technology, Acharya, K., Roy, A. and Sarkar, J., Techno world, Kolkata.
4. Mushroom production and processing thechnology (2010), Pathak Yadav Gour, Agrobios (India).