MUGBERIA GANGADHAR MAHAVIDYALAYA



P.O.-BHUPATINAGAR, Dist.-PURBA MEDINIPUR, PIN.-721425, WEST BENGAL, INDIA NAAC Re-Accredited B+Level Govt. aided College CPE (Under UGC XII Plan) & NCTE Approved Institutions DBT Star College Scheme Award Recipient E-mail : mugberia_college@rediffmail.com // www.mugberiagangadharmahavidyalaya.ac.in

Report on

MUSHROOM CULTURE

organized by

Department of Botany and Physiology



MUGBERIA GANGADHAR MAHAVIDYALAYA

Programme Supervised by: Tanushree De, SACT, Department of Botany

Departmental meeting was held on 23.02.2023

Members present:

- 1. Sri Manas Khalua, HOD and Assistant Professor, Department of Botany
- 2. Smt. Tanushree De, SACT, Department of Botany
- 3. Sri Biswadyuti Bera, SACT, Department of Physiology
- 4. Smt. Sujaya Mahapatra, SACT, Department of Physiology

Decision was taken in the meeting:

- The Department of Botany and Physiology are going to organized a Certificate course of Mushroom Culture.
- (2) This topic will be helpful for the students to learn the process of Mushroom Culture.
- (3) It was decided that Smt. Tanushree De, Department of Botany and Smt. Sujaya Mahaptra, Department of Physiology will be program coordinator and course coordinator respectively.
- (4) The tentative schedule of this course will be from 5th April to 7th September, 2023
- (5) The participant of this course will be the students of UG- 2nd SEM, 3rd SEM, and 6th SEM.
- (6) It was decided that the course will be delivered by lecture, interaction method. Smt. Tanushree De, Department of Botany will forward the matter of this program to academic sub-committee for approval. Smt. Tanushree De, Department of Botany is requested to prepare a routine for smooth running of this course.

Relevance of the certificate course of Mushroom Culture

Course Objectives:

- Enable the students to identify and poisonous mushrooms,
- Provide hands on training for the preparation of bed for mushroom cultivation and spawn production.
- Give the students exposure to the experiences of experts and functioning mushroom firms.
- Help the students to learn a means of self-employment and income generations.

Course Outcomes:

By successfully completing the course, students will be able to:

- Identify edible types of mushrooms
- Gain the knowledge of cultivation of different types of edible mushrooms and spawn production.
- Manage the diseases and pests of mushrooms.
- Learn a means of self-employment and income generation.

Course outline

Course code: CRCO1

Duration: 30 Hours

Module 1: Introduction to mushrooms (2 Hours)

Mushrooms – Taxonomical rank – History and Scope of mushroom cultivation – Edible and Poisonous Mushrooms – Vegetative characters.

Module 2: Common edible mushrooms (2 Hours)

Button mushroom (*Agaricus bisporus*), Milky mushroom (*Calocybe indica*), Oyster mushroom (*Pleurotus sajorcaju*) and paddy straw mushroom (*Volvariella volvcea*).

Module 3: Principles of mushroom cultivation (8 Hours)

Structure and construction of mushroom house. Sterilization of substrates. Spawn production – culture media preparation – production of pure culture, mother spawn, and multiplication of spawn. Composting technology, mushroom bed preparation. Spawning, spawn running, harvesting. Cultivation of oyster and paddy straw mushroom. Problems of cultivation – diseases, pests and nematodes, weed moulds and their management strategies.

Module 4: Health benefits of mushrooms (2 Hours)

Nutritional and medicinal values of mushrooms. Therapeutic aspects - antitumor effect.

Module 5: Post harvest technology (4 Hours)

Preservation of mushrooms – freezing, dry freezing, drying, canning, quality assurance and entrepreneurship. Value added products of mushrooms.

Module 6: Training / Workshop / Filed visit (12 Hours)

Sterilization and sanitation of mushroom house, instruments and substrates.

Preparation of mother culture, media preparation, inoculation, incubation and spawn production.

Cultivation of oyster mushroom using paddy straw / agricultural wastes.

References

1. Marimuthu, T. et al. (1991) Oster Mushroom. Department of Plant Pathology. Tamil Nadu Agricultural University, Coimbatore.

2. Nita Bhal (2000) Handbook on Mushrooms. 2nd ed. Vol I and II. Oxford and IBH publishing Co. pvt. Ltd., New Delhi

3. Pandey R. K, S. K. Ghosh, (1996). A Hand Book on Mushroom Cultivation. Emkey Publications.

4. Pathak, V. N. and Yadav, N (1998) Mushroom Production and Processing Technology. Agrobios, Jodhpur.

5. Tewari Pankaj Kapoor, S. C (1988) Mushroom Cultivation. Mittal Publication, New Delhi.

6. Tripathi, D. P. (2005) Mushroom Cultivation, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

7. V. N. Pathak, Nagendra Yadav and Maneesha Gaur, Mushroom Production and Processing Technology / Vedams Ebooks Pvt. Ltd., New Delhi (2000).

NOTICE FOR CERTIFICATE COURSE OF MUSHROOM CULTURE

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Date:24.03.2023

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Notice

It is a great pleasure to inform that dept. of Botany and Physiology are going to organize a Mashroom Culture Programme to be held on 05/04/2023. All student of dept. Botany are invited to participate in this course.

Venue: Sir Jagadish Chandra Bose Hall (Room No- 328) Department of Botany, Mugberia Gangadhar Mahavidyalaya.

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Department of Botany Mugberia Gangadhar Mahavidyalaya.

Conim 24-03-2023

Dr. Swapan Kumar Misra Principal Mugberia Gangadhar Mahavidyalaya Principal Mugberia Gangadhar Mahavidyalaya

Results of the examinations

Students name	Grade	Students name	Grade
Debjani Maity	A^+	Jharna Sahoo	A^+
Sourashri Jana	A^+	Ankita Dey	A^+
Atrisha Bhattachaijya	A^+	Sagar Midya	A^+
Priyanka Roy	A^+	Santu Kumar Mandal	A^+
Kuheli Barik	A^+	Bijay Maity	A^+
Sunita Mondal	A^+	Somnath Manna	A^+
Sunita Bera	A^+	Supiya Das	A^+
Soumya Kanti Bhakta	A^+	Pitabas Maity	A^+
Sampa Sangram	A^+	Somnath Jana	A^+
Subhankar Manna	A^+	Saheb Bhunia	A^+
Psenjit Jana	A^+	Rajesh Santra	A^+
Subrata Patra	A^+	Sujay Kumar Khanra	A^+
Amrita Maity	A^+	Rangita Maity	A^+
Saborni Das	A^+	Sathi Mallik	A^+
Pratima Mondal	A^+	Aparna Jana	A^+
Susmita Maity	A^+	Suparna Dalapati	A^+
Rumpa Bera	A^+	Namita Mandal	A^+
Arpita Mitra	A^+	Dolon Roy	A^+
Susmita Giri	A^+	Priya Jana	A^+
Sanchita Hudait	A^+	Barnali Sahoo	A^+
Sova Manna	A^+	Soumya Kanti Kar	A^+
Piyali Manna	A^+	Soumitra Pahari	A^+
Sima Kotal	A^+	Jayashree Mandal	A^+
Lokhnath Maity	A^+	Krishna Jana	A^+
Mitesh Das	A^+	Sumana Samanta	A^+
Sangati Karan	A^+	Manika Maity	A^+
Suprita Maity	A^+	Sudipa Jana	A^+
Priyanka Sen	A^+		

Practical sessions





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