



BARASAT GOVERNMENT COLLEGE



POST GRADUATE DEPARTMENT OF BOTANY

VALUE ADDED COURSE

ON

INSIGHTS IN MYCOLOGY AND PLANT PATHOLOGY: FROM MUSHROOM CULTIVATION TO PEST MANAGEMENT

MAY 17-24, 2024

Chief patron

Dr. Samar Chattopadhyay
Principal
Barasat Govt. College



Venue: Departmental Seminar Room

Certificates on successful completion of the course

Course Coordinator: Dr. Anuradha Bandopadhyay

Contact no: 8910848697

Last date of registration: 16.05.2024

Registration Link: <https://forms.gle/p4SenTtZ5vgZJVxn7>





GOVERNMENT OF WEST BENGAL

BARASAT GOVERNMENT COLLEGE

POST GRADUATE DEPARTMENT OF BOTANY



NAAC ACCREDITED 'A' GRADE, DST-FIST SPONSORED & ISO 9001:2015, 14001:2015, 50001:2018 CERTIFIED COLLEGE

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Date: 30.04.2024

NOTICE

This is to notify that the Department of Botany is going to conduct one Value Added Course on 'Insights in Mycology and Plant Pathology: from Mushroom Cultivation to Pest Management' during summer vacation, from 17.05.2024 to 24.05.2024 at the departmental seminar room. Interested students are requested to contact HOD, Department of Botany for registration within 12.05.2024. Certificates will be awarded on successful completion of the course.


Principal

Barasat Government College

Principal
Barasat Govt. College
Govt. of West Bengal


H.O.D

P.G.Department of Botany
Head & Associate Professor
P.G. Department of Botany
Barasat Govt. College

A REPORT ON
VALUE ADDED COURSE FOR ACADEMIC SESSION 2023-2024
CONDUCTED BY THE DEPARTMENT OF BOTANY
BARASAT GOVERNMENT COLLEGE

From 17th May -24th May, 2024

A value added course titled '**INSIGHTS IN MYCOLOGY AND PLANT PATHOLOGY: FROM MUSHROOM CULTIVATION TO PEST MANAGEMENT**' was organised by Department of Botany on and from 17th May to 24th May, 2024, except Sunday. On each day the classes were conducted from 11.00 am to 5.00 pm. 62 students from UG and PG courses of this college enrolled for the course and successfully completed the same. One out of three resource persons were involved from other institutions. Various topics on mushroom cultivation, plant diseases of agricultural/ horticultural crops and their integrated management strategies were covered.

Duration of the course: 36 hours (13.5 hours of lecture, 12 hours of Hands on training, 7 hours of field visit, 2.5 hours of break, 1 hour of discussion and doubt clearance)

COURSE CODE: BGCBOTVAC-001/23-24: Academic session: 2023-2024

Programme objectives:

The objective of this course is to provide students with theoretical and practical knowledge on macrofungi, mushroom cultivation, plant diseases and control, with an aim to apply this knowledge for self-employment and entrepreneurship development in future

Programme outcome:

1. Students gained knowledge on integrated pest management (IPM) of crop diseases.
2. Participants got hands on training in mushroom cultivation.
3. Acquired knowledge on various symptoms of plant diseases caused by pathogens in agricultural and horticultural crops.
4. Students learned to identify, characterise and classify plant pathogens based on morphology using common tools including web based resources.

6. Acquired knowledge and got hands on training on preparation and uses of low cost biofertilizers and biopesticides.

Medium of Instruction: Bengali and English

Method of evaluation: The evaluation process carried out throughout the programme duration by a combination of the following methods:

1. Performance throughout the course (20% weightage)
2. Interactive session (20% weightage)
3. Attendance (10% weightage)
4. MCQ test (50% weightage)

Course Co-ordinator: Dr. Anuradha Bandopadhyay

Resource persons involved:

1. Dr. Nirmalendu Das, Associate Professor in Botany, Barasat Government College
2. Dr. Anuradha Bandopadhyay, Faculty, P.G. Department of Botany, Barasat Government College
3. Dr. Rajib Kumar Dey, Principal Scientist, Crop Protection Division, CRIJAF (ICAR), Barrackpore


Dr. Madhusudan Ghosh/24

Co-ordinator, IQAC

Dr. Madhusudan Ghosh
Associate Professor in Physics
Coordinator, IQAC
Barasat Govt. College
Government of West Bengal.


Dr. Narayan Chandra Karmakar

H.O.D. P.G. Dept. of Botany
Head & Associate Professor
P.G. Department of Botany
Barasat Govt. College


Dr. Anuradha Bandopadhyay/24

Co-ordinator, VAC

Faculty
P.G. Department of Botany
Barasat Government College

TECHNICAL SESSIONS

Day 1 (Friday, 17.05.2024)

Topic	Time	Speaker
Registration	10.00-10.30 am	
Inauguration	10.30-11.30 am	Dr. Samar Chattopadhyay, Principal, BGC
Introduction	11.30-12.00 pm	Dr. N.C. Karmakar, HOD, Botany, BGC
Fungi as Biofertilizer and Biopesticides: Potential Applications and Future prospects	12.00-1.30 pm	Dr. Anuradha Bandopadhyay, BGC
LUNCH BREAK		
<i>Trichoderma</i> as a Biological Control Agent: Benefits for Crops and Development of Formulations	2.00-3.00 pm	Dr. Anuradha Bandopadhyay, BGC
Hands on training on mass culturing of <i>Trichoderma</i> by eco-friendly loss cost technology	3.00-5.00 pm	Dr. Anuradha Bandopadhyay, BGC

Day 2 (Saturday, 18.05.2024)

Topic	Time	Speaker
Evaluation of students (MCQ)	10.30-11.00 pm	
Integrated Pest Management Jute	11.00-12.30 pm	Dr. Rajib Kr. Dey, CRIJAF
Integrated Pest Management Jute	12.30-1.30 pm	Dr. Rajib Kr. Dey, CRIJAF
LUNCH BREAK		
Biopesticides in integrated pest management	2.00-3.00 pm	Dr. Rajib Kr. Dey, CRIJAF
Hands on training and demonstration integrated pest management	3.00-5.00 pm	Dr. Rajib Kr. Dey, CRIJAF college Dr. Anuradha Bandopadhyay, BGC

Day 3 (Monday, 20.05.2024)

Topic	Time	Speaker
Evaluation of students	10.30-11.00 pm	
Plant Disease Symptoms	11.00-12.30 pm	Dr. Anuradha Bandopadhyay, BGC
Study of disease symptoms in agricultural and horticultural plants	12.30-1.30 pm	Dr. Anuradha Bandopadhyay, BGC
LUNCH BREAK		
Hands on training on classical and web-based methods used for identifying causal organisms and diagnosing the diseases of given specimens	2.00-5.00 pm	Dr. Anuradha Bandopadhyay, BGC

Day 4 (Tuesday, 21.05.2024)

Excursion at Beraberia and Bodai village, Amdanga subdivision, North 24 Parganas to study plant diseases and mushroom farm in various agricultural crops in farmer's field.

Resource person: Dr. Anuradha Bandopadhyay, BGC

Day 5 (Wednesday, 22.05.2024)

Topic	Time	Speaker
Evaluation of students	10.30-11.00 pm	
Mushroom cultivation: Principles and Practices	11.00-12.30 pm	Dr. Nirmalendu Das, BGC
Pests of mushroom and their management	12.30-1.30 pm	Dr. Nirmalendu Das, BGC
LUNCH BREAK		
Hands on training on Mushroom Cultivation	2.00-5.00 pm	Dr. Anuradha Bandopadhyay, BGC

Day 6 (Friday, 24.05.2024)

Topic	Time	Speaker
Student evaluation (MCQ)	10.30-11.00 pm	
Mushroom cultivation: Nutraceuticals and cosmeceutical approaches	11.00 pm-12.30 pm	Dr. Nirmalendu Das, BGC
Mushroom cultivation: Scope and challenges	12.30 pm – 1.30 pm	Dr. Nirmalendu Das, BGC
	LUNCH BREAK	
Hands on training on Mushroom Cultivation	2 .00-4.00 pm	Dr. Anuradha Bandopadhyay
Valedictory Session	4.00-5.00 pm	

Dr. Nirmalendu Das
07/06/2024
Head & Associate Professor
P.G. Department of Botany
Barasat Govt. College

Dr. Anuradha Bandopadhyay
Department of Botany
Barasat Govt. College