

BARASAT GOVERNMENT COLLEGE

POST GRADUATE DEPARTMENT OF BOTANY

10, K.N.C. Road, Barasat, Kolkata - 700124, West Bengal, India Phone: (033) 2552 3365, Fax: (033) 2562 5053, Website: www.bgc.ac.in, E-Mail: principal@bgc.ac.in

Date: 20.09.2022

NOTICE

This is to notify that the Department of Botany is going to conduct one Value Added Course on 'Study of Macrofungi, Mushroom Cultivation and Plant Diseases' in Puja Vacation, from 14.10.2022 to 20.10.2022 (36 hours) at the Departmental seminar room. Interested students and faculty members are requested to contact HOD, Department of Botany for registration within 10.10.2022. Certificates will be awarded on successful completion of the course.

Principal

Barasat Govt. College

Principal Barasat Govt. College Govt. of West Bengal

Barasat Govt. College Department of Botany

Deptt. of Botany

A REPORT ON

VALUE ADDED COURSE FOR ACADEMIC SESSION 2022-2023

CONDUCTED BY THE DEPARTMENT OF BOTANY

BARASAT GOVERNMENT COLLEGE

From 14th October -20th October, 2022

A value added course titled 'STUDY OF MACROFUNGI, MUSHROOM CULTIVATION AND PLANT DISEASES' was organised by Department of Botany on and from 14th October to 20th October, 2022, except Sunday. On each day the classes were conducted from 11.00 am to 5.00 pm.

100 students from UG, PG courses and Research scholar 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 macrofungi, mushroom cultivation and plant diseases of agricultural and horticultural crops were taught.

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: BGCBOTVAC001/22: Academic session: 2022-2023

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. Participants learnt about the diversity, ecology, and evolution of macrofungi.
- 2. Students acquired skills and tools to identify and characterize macrofungi.
- 3. Participants got hands on training in mushroom cultivation.
- 4. Acquired knowledge on various symptoms of plant diseases caused by pathogens in agricultural and horticultural crops.
- 5. Students learned to identify, characterise and classify plant pathogens based on morphology using common tools including web based resources.

- 6. Developed skills to identify, describe and characterise plant diseases in field.
- 4. 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. Ashok Kumar Das, Associate Professor in Botany (Retired), Bethune College

Dr. Anuradha Bandopadhyay Co-ordinator, Value Added Course Barasat Govt. College

Faculty
P.G. Department of Botany
Barasat Govt. College

Dr. Abhijit De IQAC Co-ordinator Barasat Govt. College

Dr. Abhijit De Associate Professor in Physics Coordinator, IQAC Barasat Govt. College Government of West Bengal Dr. Narayan Chandra Karmakar Head, PG Department of Botany Barasat Govt. College

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

TECHNICAL SESSIONS

Day 1 (Friday, 14.10.2022)

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	12.00-1.30 pm	Dr. Anuradha Bandopadhyay, BGC
Biopesticides: Potential	3	
Applications and Future		
prospects		
	LUNCH BREAK	
<i>Trichoderma</i> as a Biological	2.00-3.00 pm	Dr. Anuradha Bandopadhyay, BGC
Control Agent: Benefits for		
Crops and Development of	,	
Formulations		
Hands on training on mass	3.00-5.00 pm	Dr. Anuradha Bandopadhyay, BGC
culturing of <i>Trichoderma</i> by	*	
eco-friendly loss cost		Į.
technology		

Day 2 (Saturday, 15.10.2022)

Topic	Time	Speaker
Evaluation of students	10.30-11.00 pm	
(MCQ)		7
Study of macrofungal	11.00-12.30 pm	Dr. Ashok Kr. Das, Bethune college
population	6	
Macrofungal Diversity:	12.30-1.30 pm	Dr. Ashok Kr. Das, Bethune college
Current Status, Future		
Prospects, and Conservation	v 8	
Challenges		
	LUNCH BREAK	
Medicinal Macrofungi	2.00-3.00 pm	Dr. Ashok Kr. Das, Bethune college
		8
Hands on training on study of	3.00-5.00 pm	Dr. Ashok Kr. Das, Bethune college
macrofungal specimens		
, , ,		Dr. Anuradha Bandopadhyay, BGC

Day 3 (Monday, 17.10.2022)

Topic	Time	Speaker
Evaluation of students	10.30-11.00 pm	
Plant Disease Symptoms	11.00-12.30 pm	Dr. Anuradha
60	4	Bandopadhyay, BGC
Study of disease symptoms	12.30-1.30 pm	Dr. Anuradha
in agricultural and		Bandopadhyay, BGC
horticultural plants		
	LUNCH BREAK	
Hands on trainingon classical	2.00-5.00 pm	Dr. Anuradha
and web-based methods used		Bandopadhyay, BGC
for identifying causal		
organisms and diagnosing the	2 **	
diseases of given specimens		

Day 4 (Tuesday, 18.10.2022)

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

Resource person: Dr. Anuradha Bandopadhyay, BGC

Day 5 (Wednesday, 19.10.2022)

Topic	Time	Speaker
Evaluation of students	10.30-11.00 pm	
Mushroom cultivation:	11.00-12.30 pm	Dr. Nirmalendu Das, BGC
Principles and Practices		
Pests of mushroom and their	12.30-1.30 pm	Dr. Nirmalendu Das, BGC
management	9	
	LUNCH BREAK	
Hands on training on	2.00-5.00 pm	Dr. Anuradha Bandopadhyay, BGC
Mushroom Cultivation		
		Mrs. Chandana Paul (Trainer
		assistant), Research Scholar, BGC

Day 6 (Thursday, 20.10.2022)

Topic	Time	Speaker
Student evaluation (MCQ)	10.30-11.00 pm	
Mushroom cultivation:	11.00 pm-12.30 pm	Dr. Nirmalendu Das, BGC
Nutraceuticals and		
cosmeceutical approaches	4	
	3	
Mushroom cultivation: Scope	12.30 pm – 1.30 pm	Dr. Nirmalendu Das, BGC
and challenges		
	LUNCH BREAK	
Hands on training on	2 .00-4.00 pm	Dr. Anuradha Bandopadhyay
Mushroom Cultivation		
	1	Mrs. Chandana Paul (Trainer
3	4 2	assistant), Research Scholar,
	4	BGC
Valedictory Session	4.00-5.00 pm	

Dr. Anuradha Bandopadhyay Co-ordinator, Value Added Course Barasat Govt. College

Faculty
P.G. Department of Botany
Barasat Govt. College

Dr. Narayan Chandra Karmakar Head, PG Department of Botany Barasat Govt. College

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