

*Report of Certificate Course on*

**‘Global Challenges to Mosquito-borne Diseases  
and their Controlling Approaches’**



**Organized by  
Post Graduate Department of Zoology  
Banwarilal Bhalotia College, Asansol, West  
Bengal, India  
Under the aegis of IQAC**

**Course Mode: Blended Mode  
Duration: 40 hours**



Estd. -1944

# Banwarilal Bhalotia College

*Constituent College of the Kazi Nazrul University*

*Govt. Sponsored (U.G & P.G.)*

COLLEGES WITH POTENTIAL FOR EXCELLENCE

Asansol-713303, West Bengal (India)

☎(0341)2274842,2275414

☎IGNOU:2274563,

☎ NSOU:2274250

Fax: (0341)2274529

## NOTICE

The Department of Zoology of our College is going to organize a Certificate Course on Global Challenges to Mosquito-borne Diseases and their Controlling Approaches from 15.11.2022 to 15.12.2022. The interested candidates are requested to register their names before 10.11.2022.

.....  
Signature  
Dr. Rajrupa Ghosh  
Head Of the Department  
P.G.Zoology  
B.B.College  
Asansol-713303

.....  
Signature  
Dr. Amitava Basu  
Principal  
B.B.College  
Asansol-713303



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To ,  
The Principal through IQAC,  
Banwarilal Bhalotia College,  
Asansol-713303, WB, India

**Subject : Departmental meeting regarding framing of the detailed Syllabus, Schedule and Board Of Studies (BoS) for the Certificate course on Global Challenges to Mosquito-borne Diseases and their Controlling Approaches to be held by the Department of Zoology.**

Respected Sir,

In the meeting held by the IQAC, Banwarilal Bhalotia College, with all the HODs of all the departments on 28.09.2021 regarding the introduction of Certificate course in academic session 2021-2022, it was decided after discussion that our department of Zoology will introduce a certificate course on Global Challenges to Mosquito-borne Diseases and their Controlling Approaches for this session. In this connection, the P.G. Department of Zoology held a meeting with all faculties of the department to frame detailed Modules, Syllabus & schedule of the said certificate course. Following resolutions are made in the meeting -

- I. The course will comprise of 41 hours with 29 hours of theory and 12 hours of Practical.
- II. The detailed syllabus with modules for this course was chalked out in this meeting.
- III. There will be 29 continuous theory classes during which the students will be introduced to the subject matter and make their concept about the topic.
- IV. The Remaining 12 will be their practical classes and full demonstration about the techniques.
- V. A Board of Studies (BoS) for this purpose was also constructed for the smooth running of the program. This Board included faculty members of our Department with Co ordinators. The structure of the BoS is as follows:

- Dr. Rajrupa Ghosh (**Head of the Department**).
- Dr. Sangita Lahiry (**Course Coordinator**).
- Dr. Atrayee Dey (**Course Coordinator**).
- Dr. Zarqua Jamal.
- Smt. Saswati Chakraborty.
- Sri Koushik Kumar Mandal (**Course Coordinator**).
- Sri Pankaj Dutta.
- Sri Raja Mukherjee.
- Smt. Sananda Chanda.

V. The course is scheduled to start on 15.11.2022 and to end on 15.12.2022 with the valedictory session and certificate distribution.

There on behalf of all the faculty members of the department I request you to give us permission for the above-mentioned course with its given syllabus and modules.

Thanking you,

Dr. Rajrupa Ghosh  
Head of the Department  
Assistant Professor  
P.G. Department of Zoology  
Banwarilal Bhalotia College, Asansol-03

# CERTIFICATE COURSE ON

## “GLOBAL CHALLENGES TO MOSQUITO BORNE DISEASES AND THEIR CONTROLLING APPROACHES”



Course opening date: 15<sup>th</sup> November, 2022 (41 hours long)



**Organised by**

**Banwarilal Bhalotia College**  
**Post Graduate Department of Zoology**  
**Asansol, West Bengal, India**  
**(Under the aegis of IQAC)**

### **Aim of the Course:**

In this course, the students will learn to identify different species of mosquito and their role as vector in vector borne diseases. Malaria, Zika virus and Dengue fever are of global concern and there is a need of strategic World-wide approaches to controlling mosquitoes and mosquito borne diseases. Students will also learn about how mosquito borne diseases are distributed, and the suitability of vector control practices designed to prevent the spread of these dangerous diseases.

### **Chairperson:**

Dr. Amitava Basu, Principal, Banwarilal Bhalotia College, Asansol.

### **Course Coordinators:**

Dr. Sangita Lahiry, Assistant Professor, Post Graduate Department of Zoology, Banwarilal Bhalotia College, Asansol.

Dr. Atrayee Dey, Assistant Professor, Post Graduate Department of Zoology, Banwarilal Bhalotia College, Asansol.

Sri Koushik Kumar Mandal, Assistant Professor, Post Graduate Department of Zoology, Banwarilal Bhalotia College, Asansol.



## Invited Speakers:



**Prof. Goutam Chandra**  
**Professor**

**Department of Zoology  
The University of Burdwan  
West Bengal, India**



**Professor Dhiraj Saha**  
**Professor**

**Department of Zoology  
University of North Bengal  
West Bengal, India**

## Important Notes:

Course Type: **Interdisciplinary Certificate Course**

Target Group: **UG/PG** students of all discipline

Course Opening date: **15<sup>th</sup> November, 2022**

Course mode: **Blended Mode** (Online & Offline both)

Class timing: **6-8 PM (IST)**

Course duration: **15.11.2022-15.12.2022**

Exam: **MCQ test**

Registration link: <https://forms.gle/FrrMejnbBdS9U4cg8>  
(Open till 10<sup>th</sup> November, 2022)

**CERTIFICATE WILL BE AWARDED ON  
COMPLETION OF THE COURSE**



# Banwarilal Bhalotia College

Constituent college of the **KAZI NAZRUL UNIVERSITY**, Asansol  
(GOVT. SPONSORED U G & P G College)  
ASANSOL - 713303, WEST BENGAL  
(INDIA)

Dr Amitava Basu, M Com, Ph D  
Principal

Date: 12.11.2022

To  
**Prof. Goutam Chandra**  
Department of Zoology  
The University of Burdwan  
Burdwan-713104, West Bengal, India

**Subject: Invitation as a Resource Person for Certificate Course on 21<sup>st</sup> November, 2022**

Sir,

With immense pleasure, we would like to inform you that the Post Graduate Department of Zoology, Banwarilal Bhalotia College, Asansol, India, is going to organize a **Certificate Course** on **"Global Challenges to Mosquito Borne Diseases and their Controlling Approaches"** from **15.11.2022 to 15.12.2022**. We shall be honored to have you with us as an **Invited Speaker** on **21<sup>st</sup> November, 2022** and grant us the opportunity to be enriched by your eloquence and profundity.

Thanking you in anticipation of an affirmative.

Yours Sincerely

Dr. Amitava Basu  
Principal  
Banwarilal Bhalotia College  
Asansol-713303

**DR. AMITAVA BASU**  
Principal, B. B. College  
Ushagram, Asansol, P. Bardhaman  
West Bengal - 713303





# Banwarilal Bhalotia College

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(GOVT. SPONSORED U G & P G College)  
ASANSOL - 713303, WEST BENGAL  
(INDIA)

Dr Amitava Basu, M Com, Ph D  
Principal

Date: 12.11.2022

To  
Prof. Dhiraj Saha  
Department of Zoology  
North Bengal University  
Raja Rammohunpur  
West Bengal-734014

**Subject: Invitation as a Resource Person for Certificate Course on 17<sup>th</sup> November, 2022**

Sir,

With immense pleasure, we would like to inform you that the Post Graduate Department of Zoology, Banwarilal Bhalotia College, Asansol, India, is going to organize a **Certificate Course** on **"Global Challenges to Mosquito Borne Diseases and their Controlling Approaches"** from **15.11.2022 to 15.12.2022**. We shall be honored to have you with us as an **Invited Speaker** on **17<sup>th</sup> November, 2022** and grant us the opportunity to be enriched by your eloquence and profundity.

Thanking you in anticipation of an affirmative.

Yours Sincerely

Dr. Amitava Basu  
Principal  
Banwarilal Bhalotia College  
Asansol-713303

**DR. AMITAVA BASU**  
Principal, B. B. College  
Ushagram, Asansol, P. Bardhaman  
West Bengal - 713303



*Syllabus for Certificate Course on*  
**GLOBAL CHALLENGES TO MOSQUITO-BORNE DISEASES AND  
THEIR CONTROLLING APPROACHES**

**Organized by**  
**Post Graduate Department of Zoology**  
**Banwarilal Bhalotia College, Asansol, West Bengal, India**  
**Course Mode: Blended Mode**

<b>Title of the Certificate Course:</b>	Global Challenges to Mosquito-borne Diseases and their Controlling Approaches
<b>Target Group:</b>	UG & PG level students from all discipline, Banwarilal Bhalotia College
<b>Duration of the Course:</b>	41 hours
<b>Session:</b>	2022-2023
<b>Date:</b>	15.11.2022 to 15.12 .2022
<b>Timing:</b>	6 pm to 8 pm
<b>Objective of the course:</b>	The course will be inductive for the students to learn about different species of mosquitoes, their identification and their role as vector in vector-borne diseases. The lectures will cover various mosquito-borne diseases which are of global concern. Students will learn about their strategic controlling methods, and the suitability of vector control practices designed to prevent the spread of these dangerous diseases.

**Content of the course:**

**Module 1:** Overview on Mosquitoes and their Role as Vector

**Unit 1: Fundamentals of Mosquito (6L)**

- ❖ Identification of Adult and Larval forms of *Anopheles*, *Culex* and *Aedes*.....1L
- ❖ Morphological identification of male and female adult mosquitoes.....1L
- ❖ What is the purpose of mosquito & why do they exist?.....1L
- ❖ The ecological role of mosquito larvae in aquatic environments.....1 L
- ❖ Life Cycle of *Anopheles*, *Culex* and *Aedes*.....2 L



## Unit 2: Role of Mosquito as Vector (16 L)

- ❖ Basic Concepts of Vector.....1L
- ❖ Concept on Infectious disease, virus, non-infectious disease, incubation period, pathogen.....1L
- ❖ Mosquito as a Vector.....2L
- ❖ Mosquito Borne Diseases (MBD).....5L
- ❖ Transmission of MBD and role of Insect Vector.....3L
- ❖ Mosquito and Human Health: A Global Concern .....2L
- ❖ Current scenario of Mosquito Vector Management: Concern and Prospects.....2L

## Module 2: Controlling Approaches

### Unit 3: Novel control strategies for mosquito-borne diseases (7L)

- ❖ Biological Control of Mosquito-Borne Diseases.....2L
- ❖ Household-level vector control strategies.....2L
- ❖ Biotechnological control of mosquitoes.....2L
- ❖ The future of vector control.....1L

## Module 3: Practical Demonstration on Different Aspects of Mosquitoes (12L)

Unit 1: Identification of larval forms of *Anopheles*, *Culex*, *Aedes*.....3L

Unit 2: Identification of Adult *Anopheles*, *Culex*, *Aedes*.....3L

Unit 3: Preparation of Mosquito Repellent .....6L

Day	Date	Time	Topic	Speaker
01	15.11.2022	6.00-6.15 pm	Inauguration Speech	Dr. Amitava Basu
		6.15-6.30 pm	Introduction to Mosquitoes	Shri Koushik Kumar Mondal
		6.30-7.15 pm	What is the purpose of mosquitoes and why do they exist?	Dr. Atrayee Dey
		Break		
		7.30-8.00 pm	Continue	Dr. Atrayee Dey
02	16.11.2022	6.00-6.45 pm	Concept of Infectious disease	Dr. Sangita Lahiry
		Break		
		7.00 – 8.00 pm	Life cycle of mosquito ( <i>Anopheles</i> , <i>Culex</i> , <i>Aedes</i> )	Smt. Sananda Chandra
03	17.11.2022	6.00-8.00 pm	Mosquito and Human health; Current scenario of Mosquito Vector Management	Prof. Dhiraj Saha (NBU)
04	18.11.2022	6.00-7.00 pm	Mosquito borne Diseases	Smt Saswati Chakraborty
		Break		
		7.15-8.00 pm	Continue	Smt Saswati Chakraborty
05	21.11.2022	6.00- 8.00 pm	Mosquito, it's role as vector, Global challenges and control	Prof. Goutam Chandra (BU)
06	22.11.2022	6.00-6.45 pm	Identification of Mosquitoes	Shri Koushik Mondal
		Break		
		7.00-8.00 pm	Continue	Shri Koushik Mondal
07	23.11.2022	6.00-6.45 pm	Basic concepts of Vector	Shri Raja Mukherjee
		Break		
		7.00-8.00 pm	Continue	Shri Raja Mukherjee
08	24.11.2022	6.00-7.00 pm	The Future of Vector control	Dr. Zarqua Jamal
		Break		

		7.15-8.00 pm	Ecological role of mosquito larvae in aquatic environments	Gouri Shankar (Research Scholar, B.U)
09	29.11.2022	6.00-8.00 pm	Biological control of mosquitoes	Shri Pankaj Dutta
10	30.11.2022	6.00-8.00 pm	Biotechnological control of mosquitoes	Dr. Shubhamay Panda
11	01.12.2022	6.00-8.00 pm	Transmission of MBD and role of Insect vector	Shri Raja Mukherjee
12	2.12.2022-13.12.2022	Practical Demonstration on Different Aspects of Mosquitoes by Shri Rajesh Kumar Malla, Research Scholar, Dept. of Zoology, The University of Burdwan		

**Schedule for Certificate Course on**

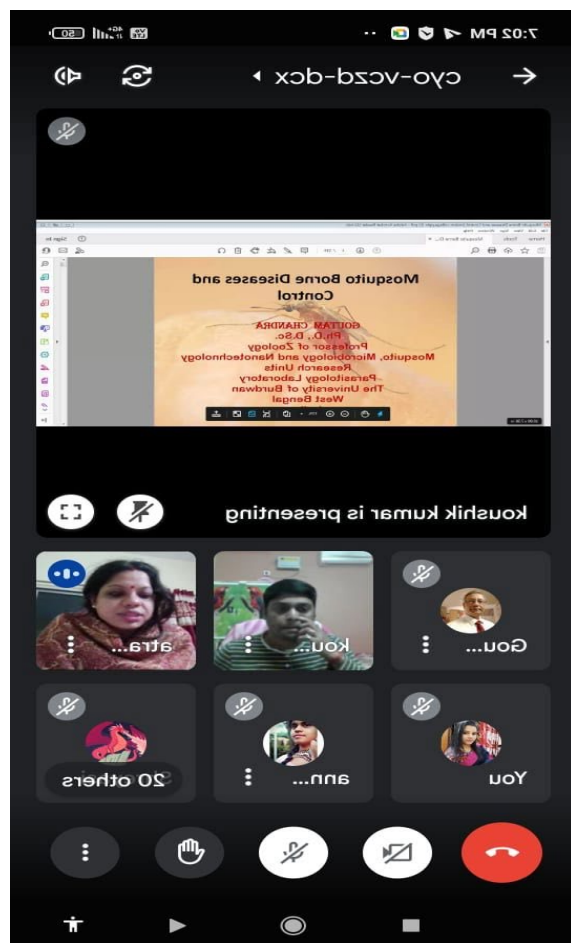
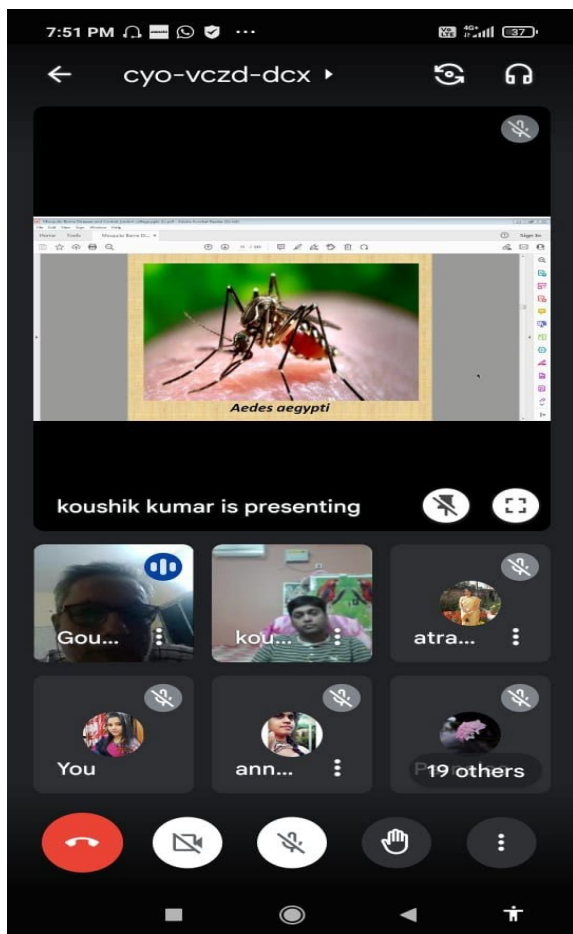
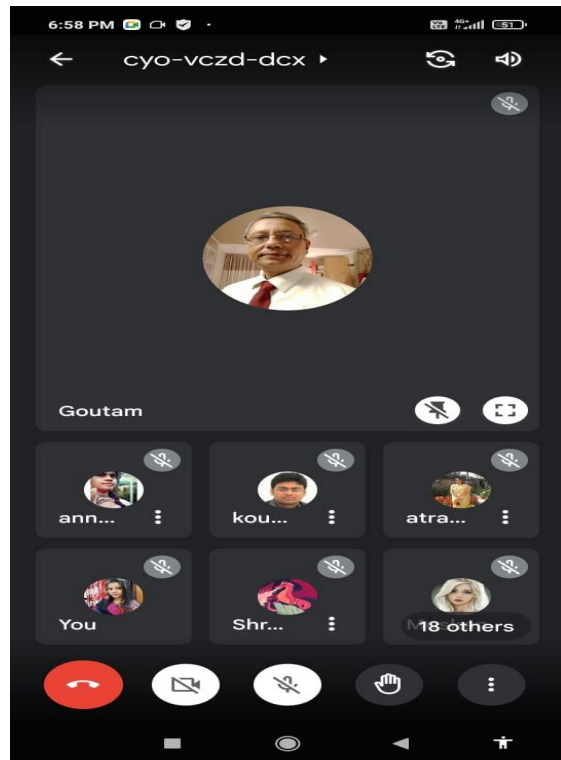
**GLOBAL CHALLENGES TO MOSQUITO-BORNE DISEASES AND THEIR CONTROLLING APPROACHES**

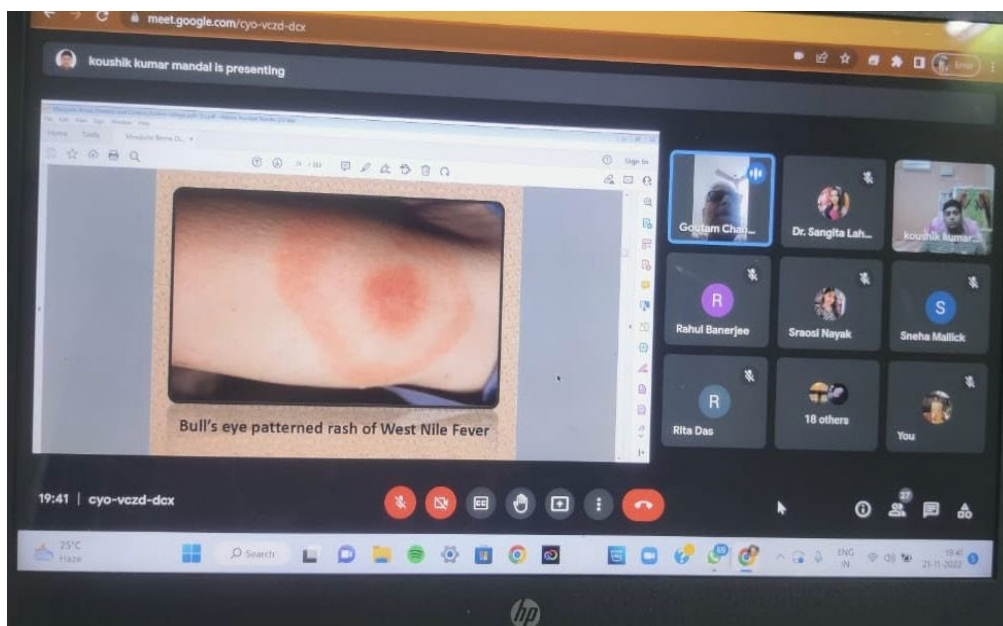
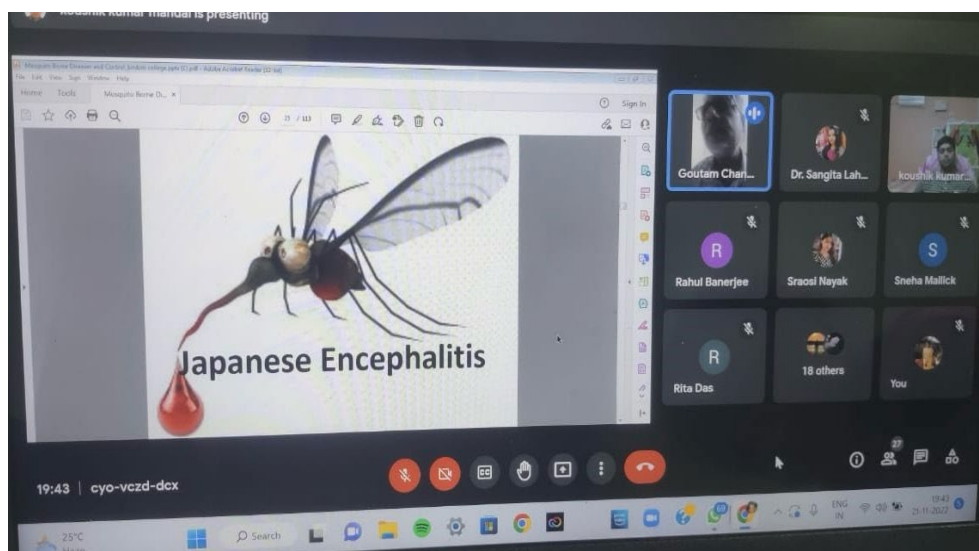
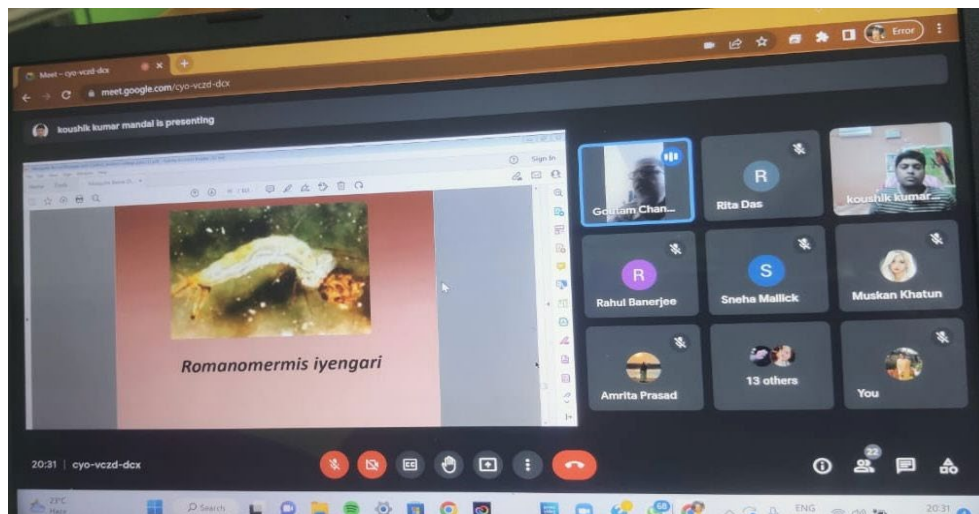
**Organized by  
Post Graduate Department of Zoology  
Banwarilal Bhalotia College, Asansol, West Bengal, India  
Course Mode: Blended Mode**

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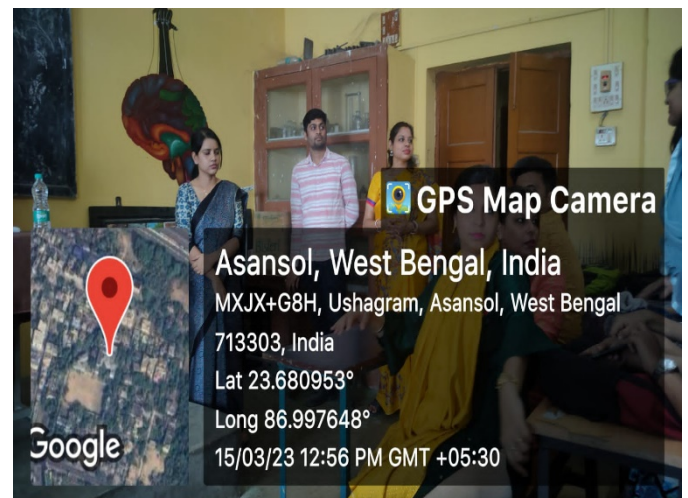
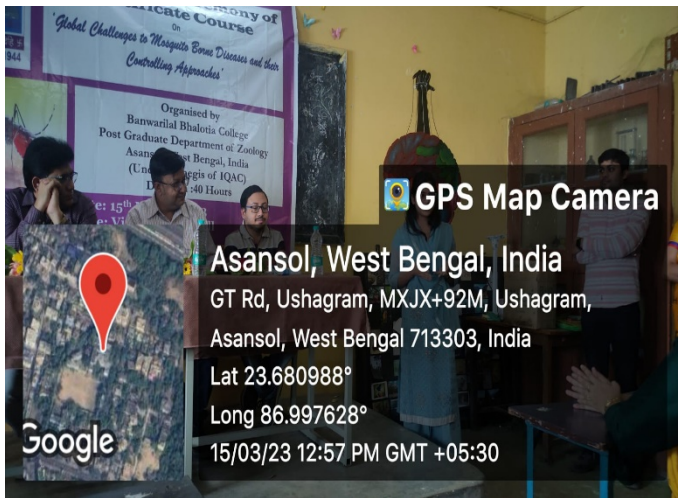
## Screenshots of online classes







## Pictures of valedictory ceremony



# Certificates





# CERTIFICATE COURSE

GLOBAL CHALLENGES TO MOSQUITO-BORNE DISEASES  
&  
THEIR CONTROLLING APPROACHES



## Letter Of Appreciation

To  
The Course Coordinator,  
**Dr. Sangita Lahiry**  
Assistant Professor  
Department of Zoology  
Banwarilal Bhalotia College  
Asansol, West Bengal.

Dear Ma'am,  
On behalf of the organizing team and other Coordinators of the certificate course, organized in blended mode by the Department of Zoology under the aegis of IQAC, **Banwarilal Bhalotia College**, Asansol, on **December, 2022**. I would like to extend my gratitude for your support and efforts in making the course a successful one.

Warm Regards,

(**Dr. Amitava Basu**)  
**Principal**

Banwarilal Bhalotia College  
Asansol, West Bengal.  
India