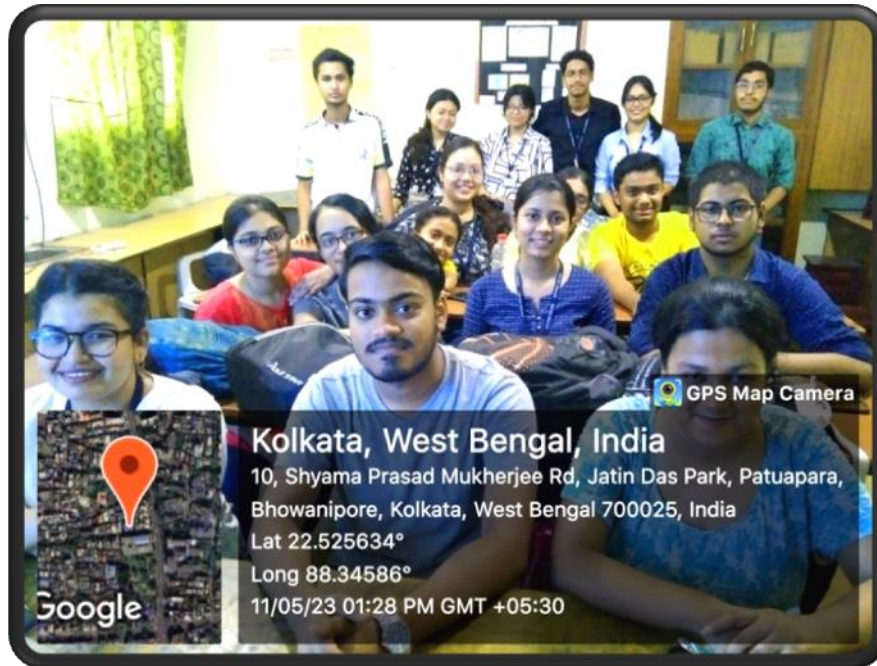


Report

Sem II - Students' Seminar Competition

11 May 2023





A **Students' Seminar Competition** with Semester II under graduate students was organized by Dept. of Microbiology in association with IQAC, Asutosh College on 11 May 2023, Thursday. The students were divided into four Groups. Each group was given 12 min for presentation and 3 min for Question Answer Session. The event was based on the following topics:

1. Interdisciplinary Science
2. History of Microbiology
3. Biochemistry – Medicinal Drugs and Side Effects
4. Covid 19: A Mystery To A Pandemic, in 93 Days

Convener:

Dr. Kuntal Kanti Goswami, HOD, Dept. of Microbiology, Asutosh College.

Organizing Committee & Judges:

Dr. Pranab Kumar Das, Assistant Professor, Dept. of Microbiology

Dr. Shankar Chandra Basu, Assistant Professor, Dept. of Microbiology

Summary of the Programme:

Group A - Interdisciplinary Science

The role of microorganisms in preparation of vaccines as well as their misuse as bio-weapon has been emphasized here. The ultra structures of bacteria as capsular polysaccharides, frimbrae, cilia and viral coat proteins- which contributes to their virulent properties has been vividly describe. Moreover, scope of virology and it's use in the recent COVID- 19 pandemic has been highlighted in this lecture. Finally, sophisticated modern day molecular-biology tools and next generation sequencing techniques had been described.

Group B - History of Microbiology

There are numerous eminent scientists and researchers who had contributed significantly towards the development of microbiology. Contribution of them has been reviewed in this lecture. Firstly, the contribution of Antonie van Leeuwenhoek (invention of microscope) and Louis Pasteur (Father of Microbiology) had been described. Then the lecture proceeded further with the path breaking discoveries of Joseph Lister - antiseptic discovery, Edward Jenner- vaccination, Robert Koch- development of cowpox vaccine, Alexander Fleming-discovery of penicillin antibiotic, Paul Ehrlich - development of chemotherapy; etc. and these had been satisfactory explained.

Group C – Medicinal Drugs and Side Effects

Many allopathic drugs have been banned nowadays due to their immense side effects. Misuse of such drugs has been highlighted in this lecture. To begin with, different types of allopathic drugs that we consume in day to day life, and their mode of action have been explained. Then, the reason behind banning

of two very common drugs - ranitidine and Lynoral has been emphasized. Ranitidine acts as H₂ blocker, but on the other hand, low-level of N-Nitrosodimethylamine (NDMA) is formed inside the body which is quite carcinogenic in nature. Likewise, Lynoral (Ethinylestradiol) is an oestrogen medication used widely in birth control pills in combination with progestin has been banned due to innumerable side effects as blood clots, cardiovascular disorders, liver damage, uterine cancer etc. The presentation was well and all queries were satisfactorily addressed to.

Group D- Covid 19: A Mystery To A Pandemic, in 93 Days

COVID- 19 pandemic had been a nightmare to every citizen worldwide, which exterminated numerous lives ranging from young ones to adults and even elderly people. This lecture was focused towards COVID-19, the mystery of 93 Days. The onset of this pandemic as an epidemic in Wuhan of China on late December 2019 was mentioned. On the succeeding days, how this epidemic had rapidly spread out throughout the world and took the form of a dangerous infectious disease was explained with various statistical data. Later the lecture proceeded with explanation of corona virus life cycle and its infection cycle within a human host. The worldwide economic loss incurred due to COVID-19 and other statistical data were also explained. Moreover, the students emphasized on the pivotal role taken by different Indian and Abroad institutes towards research on COVID-19 and corona virus, as well as "COVAXIN" development by Bharat Biotech, and "CoviShield" manufactured by Serum Institute of India Pvt Ltd, Pune is worthy mentioned.

Outcome of the Event:

The event had revealed in students; increased research awareness and enthusiasm, improvement of professional presentation and self-evaluation skills, and promotion of active learning and collaboration with peers and professors. The competition had nurtured young minds and inculcated zeal of research idea and innovativeness among students.

Results:

1st: Group C

Sl No.	Name	College Roll No.
1	Debarpan Mukhopadhyay	473
2	Jagriti Das	291
3	Srija Bhadra	465

2nd : Group A

Sl No.	Name	College Roll No.
1	Anuja Dhar	175
2	Anwasha Mukherjee	177
3	Tanushree Saha	527
4	Oindrilla Dutta	159
5	Tamanna Sinha	817

6	Paroma Nath	249
---	-------------	-----

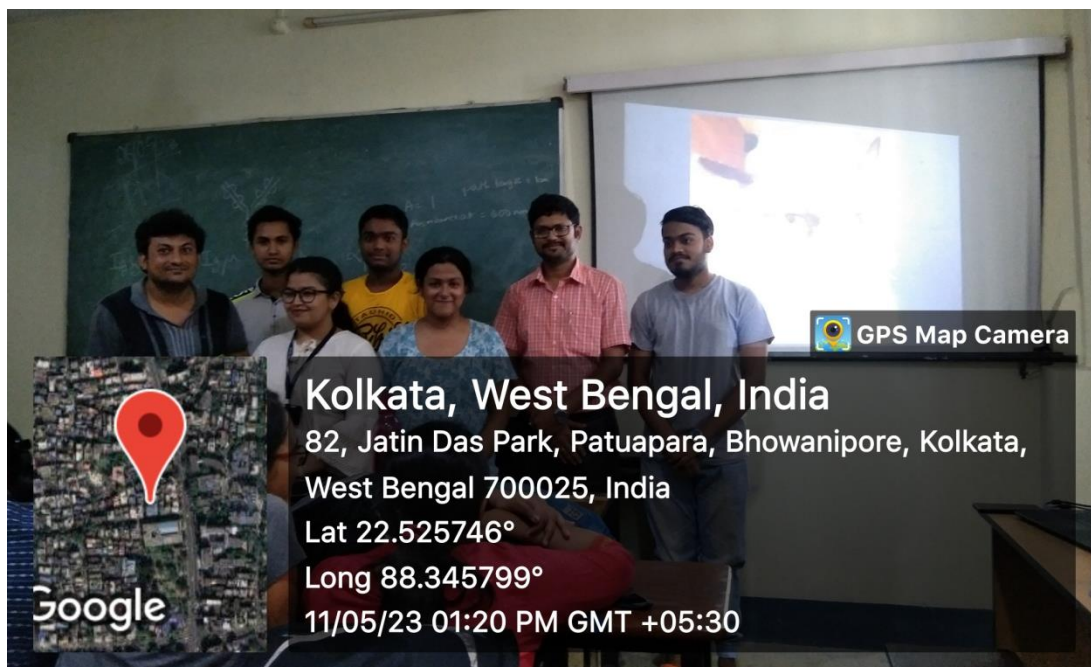
3rd : Group D

Sl No.	Name	College Roll No.
1	Mayurakshi Basak	82
2	Debmalya Sarkar	463
3	Janhavi Gupta	67
4	Saikat Bose	94
5	Ankita Barua	560
6	Subhranu Poddar	209

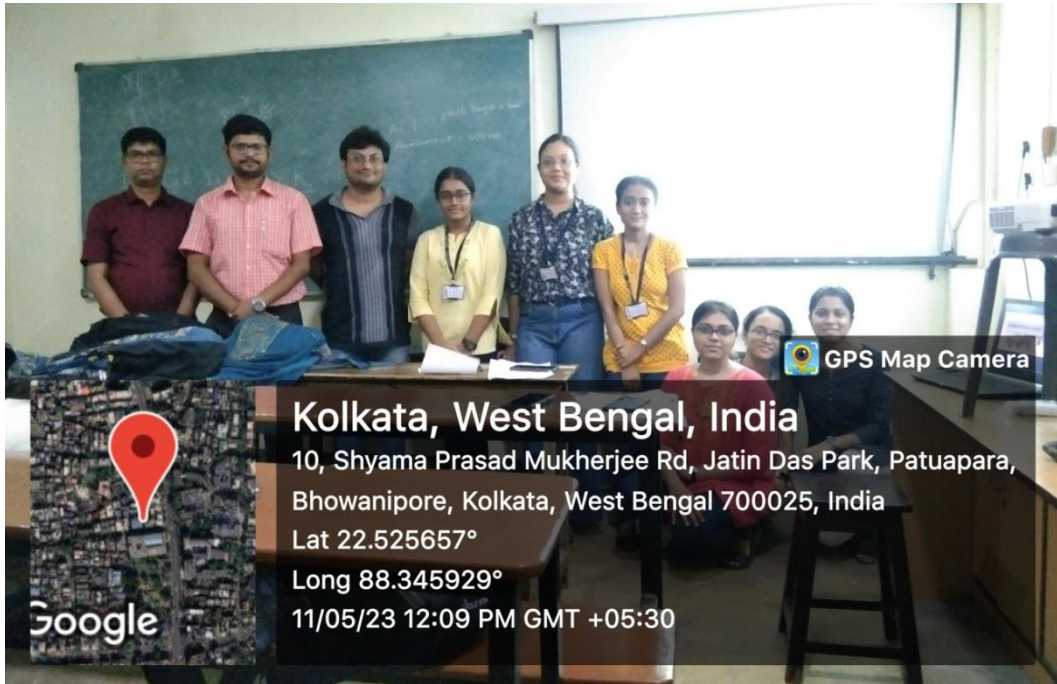
4th : Group B

Sl No.	Name	College Roll No.
1	Biswadip Mukherjee	791

Some Glimpse of the Event:



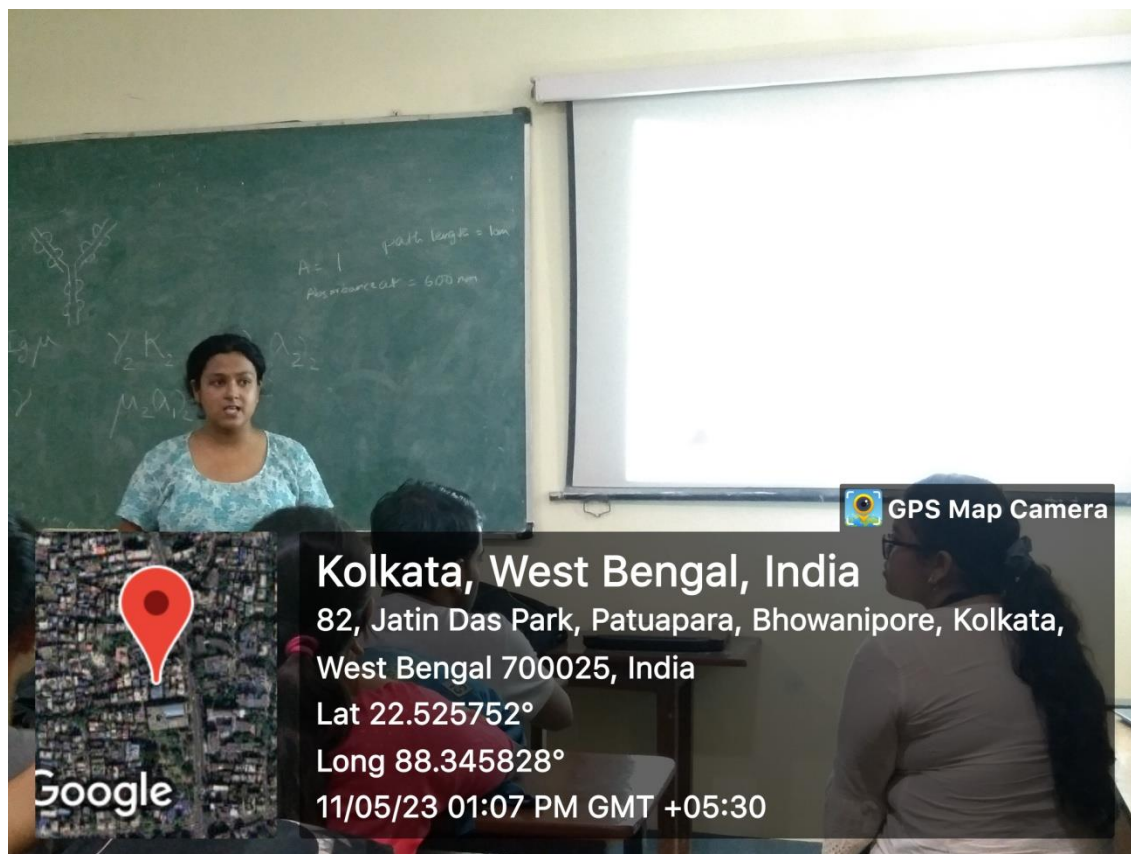
1st : Group C with Teachers



2nd : Group A with Teachers



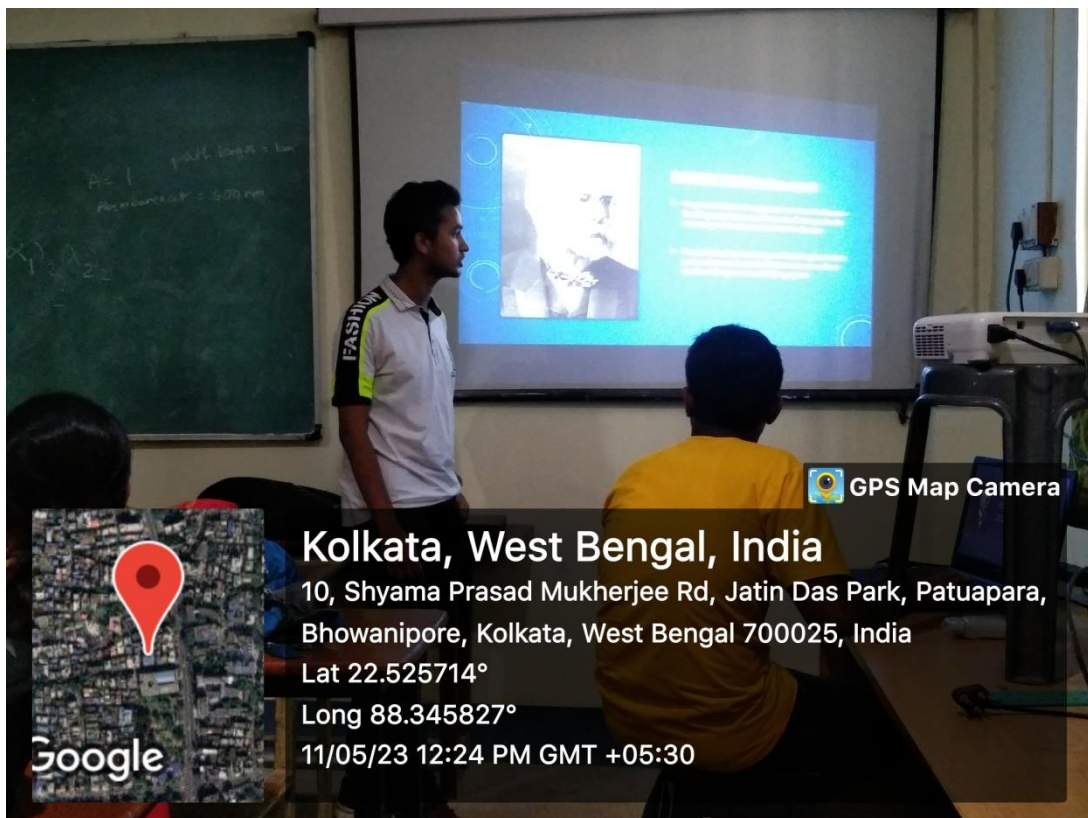
3rd : Group D with Teachers



ASUTOSH COLLEGE
(Estd. 1916)
92, S.P. Mukherjee Road
Kolkata – 700026



Phone: 2455-4504/2486-3912
Fax : (033) 2486-3006
Mail : mail@asutoshcollege.in
Web : www.asutoshcollege.in



ASUTOSH COLLEGE
(Estd. 1916)
92, S.P. Mukherjee Road
Kolkata – 700026



Phone: 2455-4504/2486-3912
Fax : (033) 2486-3006
Mail : mail @asutoshcollege.in
Web : www.asutoshcollege.in

