



Government of West Bengal

GOVERNMENT GENERAL DEGREE COLLEGE AT MANGALKOTE

Department of Botany

PANCHANANTALA, KHUDRUN DIGHI, P.O. MAJIGRAM

DISTRICT – PURBA BARDHAMAN; WEST BENGAL; PIN CODE - 713132

No.: Misc./01/2022

Date: 03.06.2022

NOTICE

With reference to the IQAC notice no. IQAC/12/2022, all concerned are hereby notified that a “National Webinar” has been scheduled to be organized jointly by the Department of Botany, Chemistry and Environmental Awareness Committee on 15.06.2022 to observe “World Environment Day” celebrated every year on June 5th. The programme has been chosen keeping in mind the spirit of all round development of students as advised by the UGC.

Countersigned

Officer-in-Charge
GGDC Mangalkote

Coordinator, IQAC
GGDC Mangalkote

Dr. Akash Kedia
Organizing Secretary
Head, Department of Botany
Joint Convener
Environment Awareness Committee

Dr. Debasish Kundu
Organizing Secretary
Department of Chemistry



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Government of West Bengal

GOVERNMENT GENERAL DEGREE COLLEGE AT MANGALKOTE

Department of Botany

PANCHANANTALA, KHUDRUN DIGHI, P.O. MAJIGRAM

DISTRICT-PURBA BARDHAMAN; WEST BENGAL; PIN CODE-713132

No.: Misc./02/2022

Date:08.06.2022

NOTICE

In partial modification of our earlier notice no. Misc./01/2022 Dated 03.06.2022, all concerned are hereby notified that the webinar will be a State Level Webinar instead of a National Webinar on 15.06.2022 to observe "World Environment Day" celebrated every year on June 5th.

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GOVERNMENT GENERAL DEGREE COLLEGE, MANGALKOTE
Departments of Botany, Chemistry and Environmental Awareness Committee in
association with IQAC, GGDC Mangalkote presents

State Level Webinar on “World Environment Day: Only One Earth”

On Wednesday, June 15th, 2022 AT 06:00 PM

REGISTER BY 14.06.2022 AT: <https://forms.gle/XZKzNxjKjme2mDpAA>

No Registration fee required

Invited Speakers:

DR. ARUNAVA DATTA, Dr. D.S. Kothari Post Doctoral Fellow
Department of Botany, The University of Burdwan, Bardhaman, West Bengal, India
Lecture topic 1: Saving Biodiversity Across Local to Global Scale

DR. AMAR HENS, Assistant Professor in Chemistry (W.B.E.S.)
Government General Degree College at Ranibandh, Bankura, West Bengal, India
Lecture topic 2: Impact of Chemistry on Environment

ORGANIZING COMMITTEE:

PATRON: Dr. Pradipta Kumar Basu, Officer-in-Charge, GGDC Mangalkote

ADVISOR: Dr. Debraj Biswal, Coordinator, IQAC, GGDC Mangalkote

ORGANIZERS:

Dr. Raj Kumar Singh, Convener, Environmental Awareness Committee, Dept. of Botany

Dr. Akash Kedia, Joint Convener, Environmental Awareness Committee, Dept. of Botany

Dr. Debasish Kundu, Dept. of Chemistry

TECHNICAL ASSISTANCE:

Dr. Animesh Mondal, Member, Environmental Awareness Committee, Dept. of Zoology

HOST ASSOCIATES:

All faculty members of IQAC Committee, Dept. of Botany, Dept. of Chemistry and Environmental Awareness Committee, GGDC Mangalkote

PROGRAMME SCHEDULE:

6.00-6.05 PM: Welcome Address by Dr. Raj Kumar Singh, Convener, Environmental Awareness Committee

6.05-6.10 PM: Inaugural Address by Dr. Pradipta Kumar Basu, OIC, GGDC Mangalkote

6.10-6.15 PM: Address by Dr. Debraj Biswal, Coordinator, IQAC, GGDC Mangalkote

6.15-6.20 PM: Introduction of Lecture 1 by Dr. Akash Kedia, Dept. of Botany

6.20-7.05 PM: Lecture 1

7.05-7.10 PM: Discussion

7.10-7.15 PM: Introduction of Lecture 2 by Dr. Debasish Kundu, Dept. of Chemistry

7.15-8.00 PM: Lecture 2

8.00-8.05 PM: Discussion

8.05-8.15 PM: Vote of Thanks by Prof. Pinaki Roy, Secretary, Teacher's Council & Head, Dept. of Sociology

WEDNESDAY, June 15th, 2022
Google Meet gateway opens at 5.40 PM

Please join- <https://meet.google.com/rwp-rnzw-izq>

Participation Certificates will be provided to candidates submitting the feedback form at the end of the webinar

REPORT ON THE STATE LEVEL WEBINAR
‘WORLD ENVIRONMENT DAY: ONLY ONE EARTH’
HELD ON 15th JUNE 2022

A. GENERAL INFORMATION ABOUT THE WEBINAR:

1. Nature and Title of the Program: State Level Webinar on “World Environment Day: Only One Earth”

2. Date: 15.06.2022, Wednesday

3. Time: 6.00 to 8.30 p.m.

4. Venue/platform: Google Meet

5. Organizers: Departments of Botany, Chemistry and Environmental Awareness Committee, GGDC, Mangalkote in association with IQAC, GGDC, Mangalkote.

6. Purpose or Objective of the Program: To create awareness and a sense of understanding among students of our college regarding environmental awareness and world environment day celebration in the form of an informative and interactive webinar.

7. Name and Designation of the First Speaker: Dr. Arunava Datta, Post Doctoral Fellow, Department of Botany, The University of Burdwan, Bardhaman, West Bengal, India.

8. Topic of Deliberation: Saving Biodiversity Across Local to Global Scale.

9. Name and Designation of the Second Speaker: Dr. Amar Hens, Assistant Professor in Chemistry (WBES), Department of Chemistry, Government General Degree College at Ranibandh, Bankura, West Bengal, India.

10. Topic of Deliberation: Impact of Chemistry on Environment.

B. DETAILS OF THE DELIBERATIONS – THE LECTURES AND THE INTERACTION:

1. Summary of the Deliberation of the First Speaker:

The speaker discussed the historical background and the significance of World Environment Day, celebrated by millions of people every year on 5th June across the world and explained why it is utmost necessary to form an Environmental Awareness Committee in every organization. The speaker in a detailed manner spoke about the importance of biodiversity across local to global scale. He at first stated briefly about the biodiversity, its types and measures of biodiversity. The main culprit for biodiversity loss is human and so the recent age can be termed as ‘anthropocene’ i.e. the current geological age, viewed as the period during which human

activity has been the dominant influence on climate and the environment. The global changes observed in Anthropocene are land and sea transformation, climate change, biological invasion, overexploitation, pollution and nitrogen deposition. A major population of amphibians, mammals, coral species, insects and plants are threatened and for this we are at the verge of sixth mass extinction. To minimize such losses, the action must be taken from local, regional as well as global scale. On an average around 15% biodiversity is protected by legal laws. The key measures to check biodiversity loss are to check invasive alien species, to protect biodiversity hot spots, to prepare biodiversity databases (Herbarium and Museum specimens, flora, fauna, checklists, distribution surveys, expert knowledge and citizen science programs) and to promote biodiversity NGOs throughout the world. The speaker also discussed the legal measures and role of some NGOs to save biodiversity in India. Finally the speaker discussed the career opportunities in the field of environmental studies for the students.

2. Summary of the Q and A Session:

A faculty member asked the first speaker that being worked internationally, whether he observed any difference in sacred groves in different parts of the world. The speaker replied that in many parts of the world especially in South Africa where the speaker worked most, the tribal population are solely responsible for protecting some biodiversity rich areas due to religious faith but there is not any governmental laws regarding sacred groves. Another faculty asked the control measures of *Prosopis juliflora*, a fast growing invasive alien plant species especially in the jungles of Africa. To this the speaker replied that the net benefits of any approach have not been thoroughly evaluated but the most common way to eradicate such plant is mechanical followed by burning of the stump and application of 2,4-D + picloram in cut and girdled plants. The brushing lubricating oil on the basis of girdled plants also showed a promising strategy to control invasive.

3. Summary of the Deliberation of the Second Speaker:

The speaker first introduced two major parts of environment which are biotic (all living organisms) and non-biotic (non-living e.g., air, water, soil etc.) components. Living part is totally dependent on non-living parts. However, day by day the non-living part of environment is under serious threat due to the addition of several pollutants continuously, and maximum of which is due to the daily practice of human life. Fresh air is an essential demand for any living organism. Continuous mixing of several toxic components (Primary pollutant such as CO, NO_x, VOC etc. and secondary pollutants e.g., HNO₃, H₂SO₄, SO₃ etc.) is polluting air continuously which is resulting serious damage in environment. The speaker also discussed causes of smog and its effects in different states of our country. Then he focused on causes and effects of water pollution. During this part he has explained biological oxygen demand, Arsenicosis, oil spills,

mariculture etc. which are mainly responsible for water pollutions. He also pointed out Mursidabad, Nadia, Burdwan, Kolkata as districts where Arsenic level found to be higher than the permissible level. Then he enlightened the facts behind soil pollution and nuclear pollution. He also discussed effects of CFCs in formation of ozone hole and greenhouse gases in global warming. Towards the end, he had discussed our responsibilities to protect our environment from all these hazardous effects. Under this section, the importance of recycling plastics, tree - plantation, using greener methodologies in Chemical hubs and industries were also discussed.

4. Summary of the Q and A Session:

A faculty member asked which form of Arsenic is most toxic for our body to which the speaker replied as Arsenic (III). Another faculty asked how can we remove or reduce As (III) from water to which the speaker replied by using some non-toxic oxidizing agents such as KMnO_4 which convert As(III) into As (V), which is not toxic for our body.

C. GENERAL INFORMATION RELATING TO PARTICIPATION AND FEEDBACK:

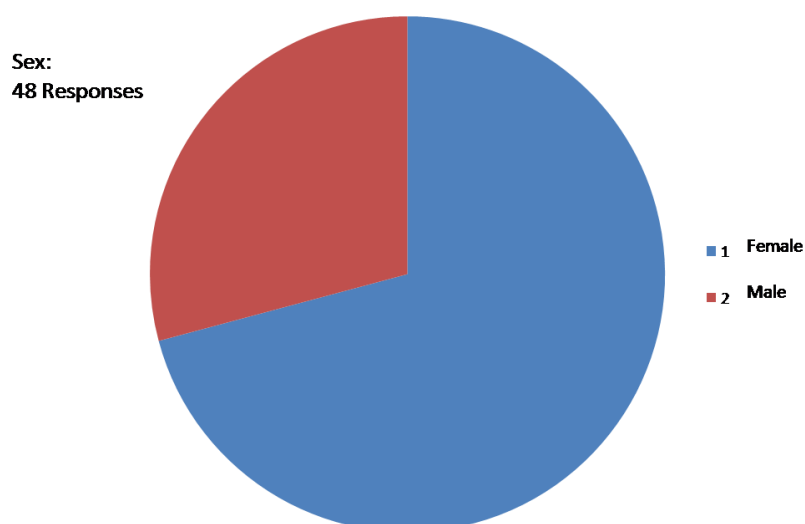
1. No of Participants who registered for the Webinar: 67

2. No of Participants present during the Webinar: The highest attendance recorded during the Webinar is 58

3. No of participants who submitted Feedback and received E-Certificates: 48

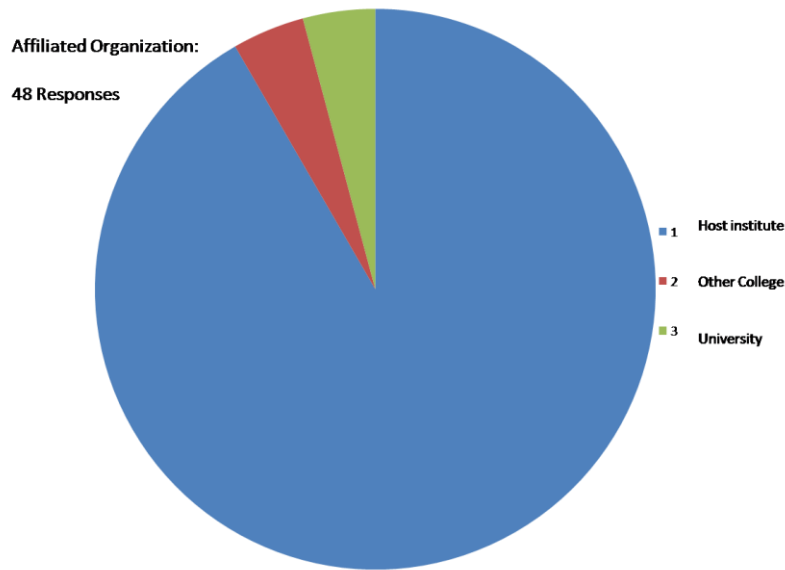
4. Composition of the Participants (based on Feedback submission through Google Forms excluding the data of trials) –

a. Sex of the Participants:



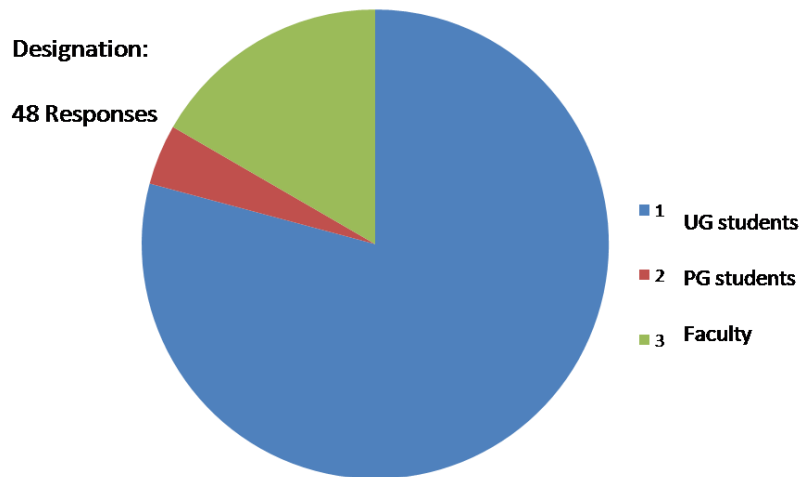
Among the 48 participants who submitted the Feedback form, about 71% were female and 29% were male.

b. Affiliated Organization of Participants:



About 91.7% of the participants were from the host institution and the rest were from other colleges and universities.

c. Designation of the participants:



Among all the participants, who submitted the feedback form, 79.2% were undergraduate students, 4.2% were post graduate students and 16.6% were faculty staffs.

5. Brief Feedback Analysis (based on Google Form responses excluding the data of trials) –

a. Overall Reviews of the Webinar:

About 75% of the participants said that the Webinar was excellent and the rest said it was good based on the three point scale of analysis i.e. Excellent/Good/Average.

b. Brief statement on qualitative inputs received:

Most of the participants thanked the organizing committee for the 'well-organized' 'fruitful' Webinar. Participants said that the lectures were 'very helpful', 'excellent', 'effective' and 'informative' and would want similar endeavours by the organizers in the future.

It has been a learning experience for the organizing committee to organize this State Level Webinar on "World Environment Day: Only One Earth". The organizers look forward to conduct more such engaging and informative Webinars for students and faculty members in the future. The committee will take measures to ensure greater participation in the Webinars conducted in the future.

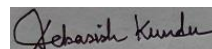


Dr. Akash Kedia

Organizer and Joint Convener

Department of Botany

GGDC Mangalkote

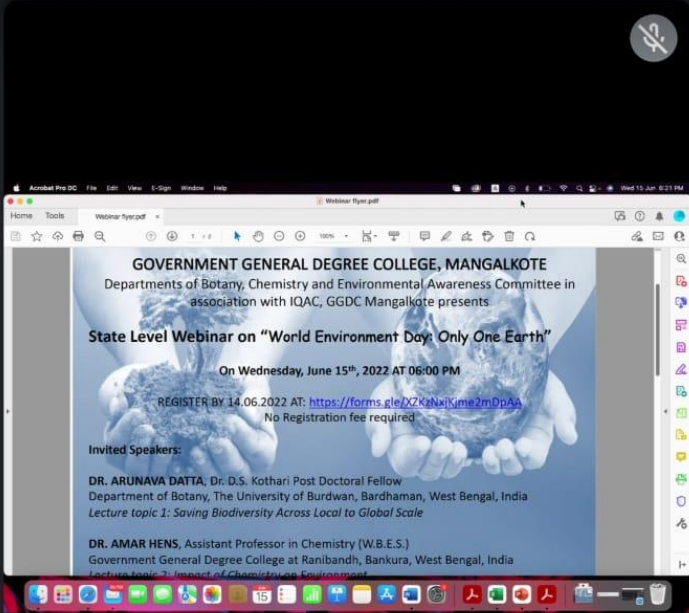


Dr. Debasish Kundu

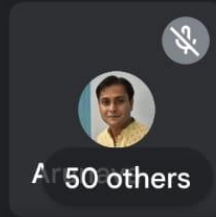
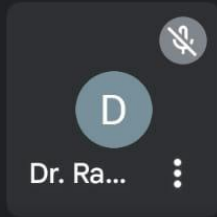
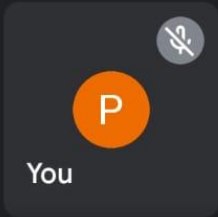
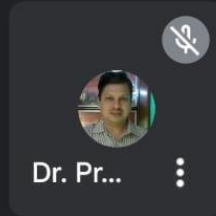
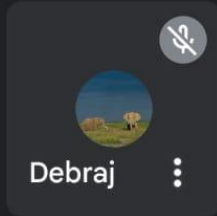
Organizer

Department of Chemistry

GGDC Mangalkote

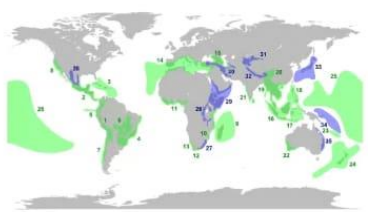


Dr. Debasish is presenting



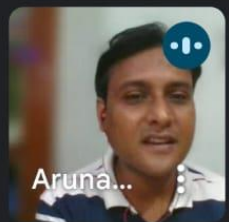
Biodiversity Hotspots

- Conceptualized by Norman Myers
- Very high rate of endemism (0.5% of vascular plants)
- Highly threatened habitat (75% of the primary vegetation is lost)
- These sites support nearly 60% of the world's plant, bird, mammal, reptile, and amphibian species
- The current hotspots cover more than 15.7% of the land surface area but have lost around their habitat.



Source: https://en.wikipedia.org/wiki/Biodiversity_hotspot

Arunava is presenting



Minu

Avatar: M

Susmi...

Avatar: Red flower

You

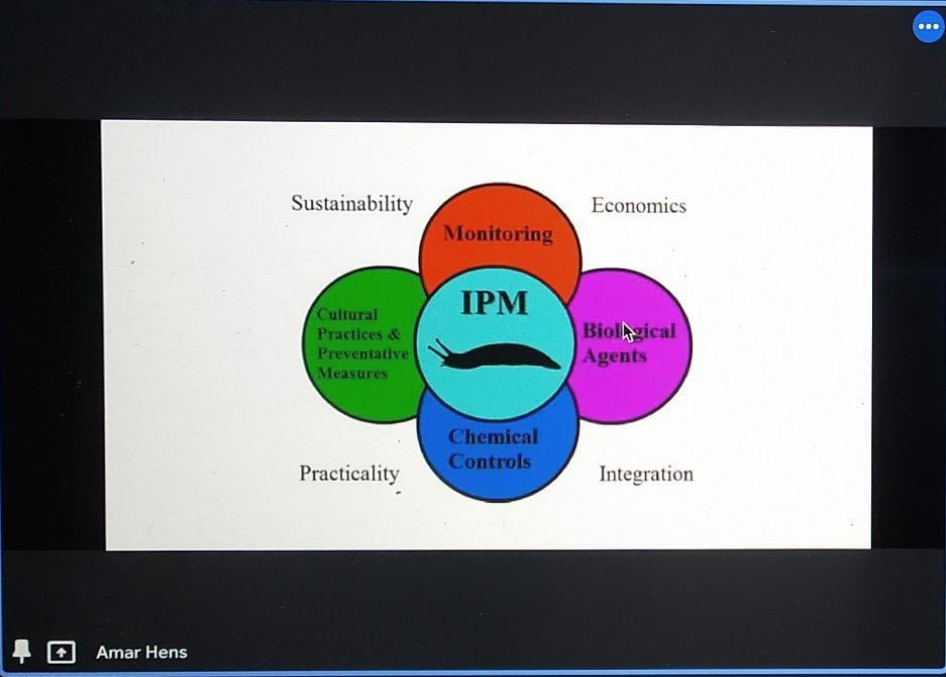
Avatar: P

Sumi

Avatar: S

SUMI 47 others

Avatar: S



Debraj Biswal

Arunshya Datta (Presentation)

F M

40 others

You

Amar Hens

7:55 PM | rwp-rnzw-izq

Meeting controls: mute, video off, chat, share screen, more options, end call

Mac OS dock with various application icons including Safari, Mail, Messages, Photos, Calendar (JUN 15), Notes, Numbers, PowerPoint, Keynote, App Store, Word, Excel, and Adobe Acrobat.