



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE

NAAC accredited with 'B' Grade

BOTANY lecture series Report

Date: 18th June, 2023 to 26th June, 2023

Time: 7 p.m

Organizers: Botany Department, Gargaon College

Mode: Online (Zoom Platform)

No. of Participants: 136

Resource person:

Sl. No.	Name of the Resource Person	Date and Time	Topic	Designation
1	Dr. Rajib Gogoi	18-06-2022	Biodiversity and its Potential in North East India.	Regional Head, Botanical Survey of India-SHRC, Gangtok
2	Dr. Ashish Kar	19-06-2022	Plants & Indigenous Knowledge System.	Ph. D, Fellow (Scientist) & Area Convenor, TERI, NERC, Guwahat
3	Dr. Banashree Medhi	20-06-2023	Mushroom Cultivation - A profitable activity.	Subject Matter Specialist (Plant Protection), Krishi Vigyan Kendra, Sivasagar, Assam
4	Mr. Bibit Dehingia,	21-06-2023	Wildlife Conservations and Management.	AFS, Range Forest Officer TR and KNP
5	Mr. Janardan Boruah	22-06-2023	Sericulture: A profitable activity.	Manager, Government Sericulture Farm, Titabar, Jorhat, Assam
6	Mr. Devanjal Bora	23-06-2023	Medicinal Plant & Human Disease.	Senior Scientist & Research Officer (Botany), NEHAR, CARI Guwahati, Assam
7	Dr. Sadhan Kr. Basumatary	26-06-2023	Paleobotany and Plant Evolution.	Scientist E, Birbal Sahni Institute of Palaeosciences, Lukcnw

Nature of Activity: Entrepreneurship, IKS, Life Skill, MoU, Alumni Talk, Research trend

Objective of the Programme:

1. To encourage students and to give an insight about the various career prospects in the field of Botany.
2. To enrich the students about indigenous knowledge systems and their livelihood scope.
3. The series also provided an opportunity to the students to get an idea about various research opportunities.

Brief Report:

The Botany Department of Gargaon College organised a Lecture series on different aspects related to Botany for the benefit of students. The series was addressed by the Vice Principal of Gargaon College, Dr. Rina Handique. In her speech she welcomed all the esteemed resource persons and thanked the organisers for taking up the initiative. The coordinator of the series and Head, Department of Botany, Gargaon College Dr. Dimbeshwar Das introduced all the speakers to the participants. On the first day Dr. Rajib Gogoi briefly explained his journey as a plant taxonomist. He also talked about his publications and precisely gave an insight about Plant Taxonomy and how to identify plants. The students' awareness of local plant resources in Indigenous knowledge systems and their potential futures was enhanced by Dr. Asish Kar on the second day. He discussed the development of IKS, the several medications that were found in India using traditional knowledge, the potential of IKS in agriculture, the use of flowers as vegetables, and other topics. He also highlighted the harvest and revenue from the cultivation of packing leaves. The third day's speaker, Miss Banashree Medhi, discussed mushroom farming as a profitable business. She gave an explanation of mushrooms, including how to recognise them, their nutritional value, and finally the business potential it presented. On the fourth day, Alumni of the department, Mr. Janardan Baruah gave a discussion about sericulture and inspired the students to pursue it. Mr. Devanjal Bora presented a talk on the research trends in traditional knowledge of medicinal plants. Mr. Bibit Dehingia, on the second last day of the series talked about the conservation of wildlife and wildlife protection. The final lecture in the series was given by Dr. Sadhan Kr. Basumatary who spoke on palaeobotany and plant evolution and enlightened the students with the scope of studying palaeobotany.

The seven-day long series was moderated by Mrs. Sangeeta Chetia and Miss Sandeepa Agarwalla, Assistant Professor, Department of Botany, Gargaon college.

Link of Youtube: Day 1: <https://www.youtube.com/live/xVkzMr06nw0?si=Fwft5dH1WctVwZzD>

Day 2: <https://www.youtube.com/live/ZI7sBGm3Blw?si=BMd922V47OjxzCyW>

Day 3: https://www.youtube.com/live/OMm5wxZF6Vc?si=A1PMUIH_WycxDoqp

Day 4: No link due to network issues

Day 5: <https://www.youtube.com/live/ZslzuQkb6J8?si=nIN2wpdjzWVb-4IU>

Day 6: <https://www.youtube.com/live/NI9AeH9mKm8?si=mvU6WNQeimtFNAz2>

Day 7: https://www.youtube.com/live/_Jfa3QbwlhE?si=-wdRbyueTnj2gtbZ

Flyer:



GARGAON COLLEGE

Organizes

Lecture Series on Botany

18 – 24 June, 2023

Time: 7 PM (From 18 – 23, June 2023)
Time : 5 PM (24 June 2023)



Registration Link
<https://shorturl.at/cvH59>

Inaugurator



Dr. Sabyasachi Mahanta
Principal
Gargaon College

Planned By
Department of Botany
Gargaon College, Simaluguri

Speakers



Dr. Rajib Gogoi
Regional Head
BSI - Gangtok



Dr. Ashish Kar
Fellow (Scientist)
& Area Convenor
TERI, NERC, Guwahati



Dr. Banashree Medhi
SMS (Plant Protection)
KVK, Sivasagar



Mr. Bibit Dehingia
AES
Range Forest Officer
KNP & TR



Mr. Janardan Boruah
Farm Manager
Govt. Sericulture Farm
Titabar



Mr. Devanjal Bora
SS & RO (Botany)
CARI, Guwahati



Dr. Sadhan Kr. Basumatary
Senior Scientist
BSIP, Lucknow

Registration Link:

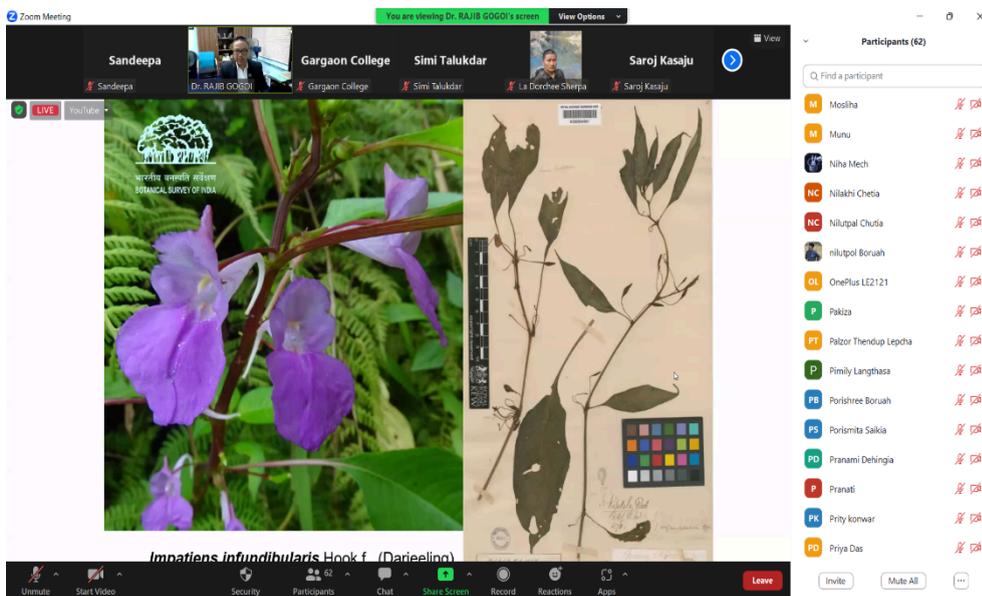
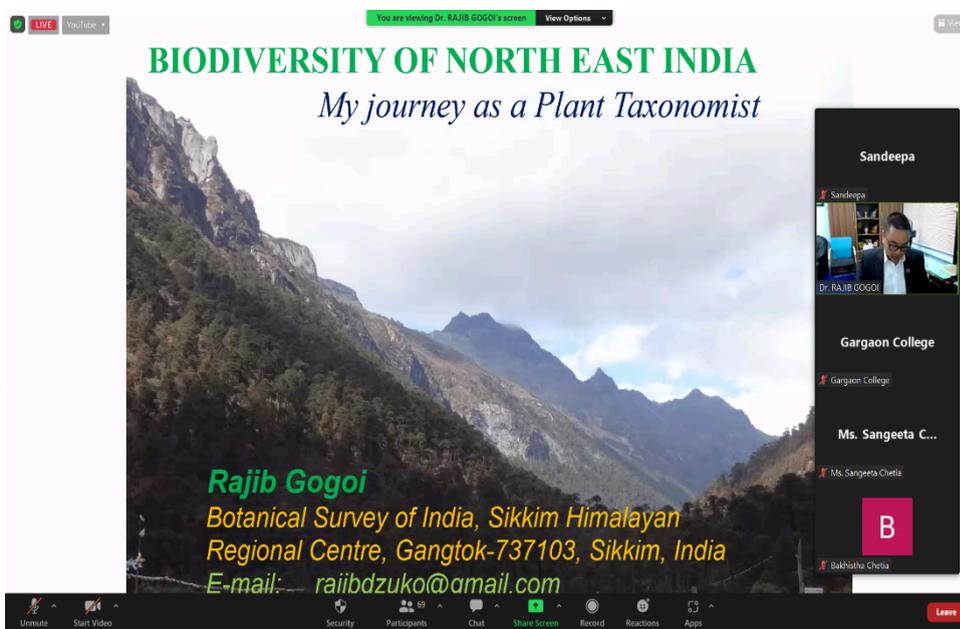
<https://forms.gle/P1ZkdNobuFnDR2Af9>

Participants list:

<https://docs.google.com/spreadsheets/d/1ZzReI7VDcQsmCeU2w7XPlaxYgKOxD4lmtgpjOBgO3c/edit?usp=sharing>

A	B	C	D	E	F	G
Timestamp	1. Name of the Participants	2. Gender	3. Name of the Institution/College Studied/Studying/Working	4. Address of the Institution/College	5. Name of the Department	6. Designation
6/17/2023 7:08:20	Sumit Das	Male	Arunachal University of Studies.	Knowledge City,Namsai, Arunachal F	Botany	Student
6/18/2023 19:05:07	Puja Saikia	Female	Assam University Diphu Campus	Assam University Diphu Campus	Life science and Bioinformatics	Student
6/16/2023 15:58:25	BIBHUTI BURAGOHAIN	Male	Assam University Diphu Campus	DIPHU	Life science and Bioinformatics	Student
6/18/2023 16:38:11	Kabyashree Tamuly	Female	Assam University Diphu Campus	Diphu	Life science and Bioinformatics	Forest Ranger
6/17/2023 1:41:36	Syeda Afrin Mumtahina Hussain	Female	B. Borooh College	Ulubari, Guwahati	Botany	Student
6/18/2023 18:46:00	Bhriгу Hazarika	Male	DHSK College	RKB path	Botany	Student
6/16/2023 13:38:27	BIKASH SINGH	Male	Dibrugarh University	DIBRUGARH	DEPARTMENT OF LIFE SCIENCES	Student
6/16/2023 13:37:06	CHINMOYEE CHAKRABORTY	Female	Dibrugarh University	Dibrugarh	DEPARTMENT OF LIFE SCIENCES	Student
6/16/2023 13:35:13	KAUSHIK KUMAR MECH	Male	Dibrugarh University	DIBRUGARH	DEPARTMENT OF LIFE SCIENCES	Student
6/16/2023 23:25:58	Barbie Goswami	Female	Dibrugarh University	Dibrugarh, Assam	Life Sciences	Student
6/17/2023 16:33:11	Subhajyoti Gohain	Male	Digboi College	Digboi , Tinisukia	Life Sciences	Student
6/16/2023 23:50:03	Sumangal Rajkonwar	Male	Digboi College	Digboi Tinsukia	Life Sciences	Student
6/16/2023 18:22:31	Tinamoni Hazarika	Female	Dulajjan College	Jayanagar, Dulajjan, Dibrugarh. Pin:	Botany	Assistant Professor
6/18/2023 20:08:24	Hritik Raj Gogoi	Male	Gargaon College	Simaluguri	Zoology	Student
6/19/2023 19:10:37	Nawab Sami Ali	Male	Gargaon College	Simoluguri	Botany	Student
6/16/2023 17:13:34	Madhujya Gogoi	Male	Gargaon College	Gargaon College,Simaluguri	Botany	Student
6/16/2023 16:57:14	Arfa Ahmed Bora	Female	Gargaon College	Simaluguri	Botany	Student
6/16/2023 14:14:14	Azhara Akhtar	Female	Gargaon College	Gargaon,Balighat	Botany	Student
6/16/2023 21:28:55	Bikram Sing Regon	Male	Gargaon College	Simaluguri	Botany	Student
6/16/2023 17:27:27	Bitikha Gogoi	Female	Gargaon College	Simaluguri	Botany	Student
6/16/2023 17:13:59	Borasha Chutia	Female	Gargaon College	Simaluguri	Botany	Student
6/17/2023 21:33:06	Chimon Changmai	Male	Gargaon College	Simaluguri	Botany	Student
6/16/2023 14:08:59	Deepshikha Kalita	Female	Gargaon College	Simaluguri,Dist :Sivasagar(Assam)	Botany	Student
6/16/2023 14:05:19	Geetashree Borboruah	Female	Gargaon College	Simaluguri- 785686,assam	Botany	Student

Photographs of the Programme: Day 1



Day 2

Zoom Meeting | You are viewing Gargaon College's screen | View Options

Sandeepa | Sandeepa Agar... | Gargaon College | 75602af5 | Ashish Kar

teri

LOCAL PLANT RESOURCES: IN TRADITIONAL KNOWLEDGE SYSTEM AND LIVELIHOOD SCOPE

Ashish Kar, Ph.D
Fellow (Scientist) & Area Convenor
The Energy and Resources Institute (TERI),
Northeastern Regional Centre,
VIP Road, Chachal, Guwahati, Assam

Participants (34)

- S Sandeepa (Co-host, me)
- GC Gargaon College (Host)
- AK Ashish Kar (Co-host)
- SA Sandeepa Agarwalla (Co-host)
- 7 75602af5
- A Anamika
- AK Anirban Kashyap
- AA Azhara Akhtar
- B Barakha
- BC Bornali Chetia
- DK Deepshikha Kalita
- GG gayatri Gogoi
- JS Jenishmita Saikia
- KD Krish Dutta
- LD Lakshmita das
- LR Lucky Rajkumari

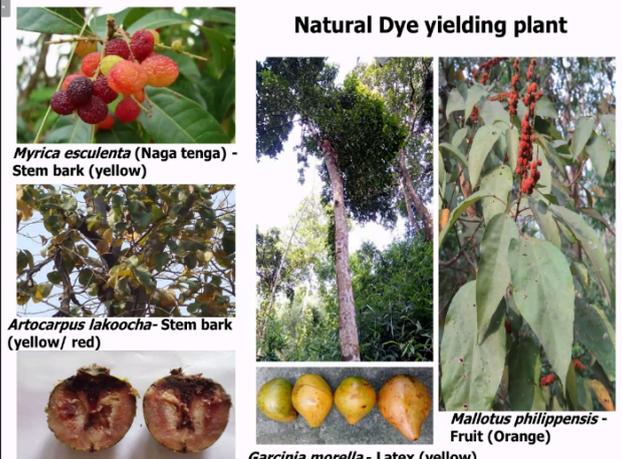
Unmute | Start Video | Security | Participants | Chat | Share Screen | Record | Reactions | Apps | Leave

26°C Cloudy | Search | ENG IN | 19:12 19-06-2022

Zoom Meeting | You are viewing Gargaon College's screen | View Options

Sandeepa | Gargaon College | Ashish Kar | Sandeepa Agar... | Porismita Saikia | Barakha

Natural Dye yielding plant



Myrica esculenta (Naga tenga) - Stem bark (yellow)

Artocarpus lakoocha - Stem bark (yellow/ red)

Mallotus philippensis - Fruit (Orange)

Garcinia morella - Latex (yellow)

Participants (38)

- S Sandeepa (Co-host, me)
- GC Gargaon College (Host)
- AK Ashish Kar (Co-host)
- SA Sandeepa Agarwalla (Co-host)
- 7 75602af5
- A Anamika
- AK Anirban Kashyap
- AB Ashim boran
- B Bakshitha Chetia
- B Barakha
- E Echa Mech
- GG gayatri Gogoi
- JS Jenishmita Saikia
- KD Krish Dutta
- LR Lucky Rajkumari
- M Mostiha

Unmute | Start Video | Security | Participants | Chat | Share Screen | Record | Reactions | Apps | Leave

26°C Cloudy | Search | ENG IN | 19:43 19-06-2022

Day 3

This screenshot shows a Zoom meeting in progress. The main window displays a PowerPoint slide titled "Mushroom cultivation - A profitable activity". The slide features a photograph of several mushrooms and text identifying the presenter as Dr. Banashree Medhi, Subject Matter Specialist (Plant Protection) at Krishi Vigyan Kendra, Silvasagar, Assam Agricultural University. The Zoom interface includes a top bar with "LIVE" and "You are viewing kvk_darrang's screen", a right-hand sidebar with a list of participants (Sandeepa Agarwalla, Sandeepa, Gargaon College, Barakha, vivo V2058, Khusboo Agarwal, Porishmita Saikia), and a bottom toolbar with controls for Unmute, Start Video, Security, Participants (35), Chat, Share Screen, Record, Reactions, and Apps. A "Leave" button is visible in the bottom right corner.

This screenshot shows a Zoom meeting with a participant's video feed visible. The main window displays a PowerPoint slide titled "Why Mushroom business is important?". The slide contains the following text:

• The global mushroom market was valued at 12.74 million tons (MT) in 2018 and is projected to reach 20.84 million tons (MT) by 2026, exhibiting a CAGR of 6.41% in the forecast period.

• High Benefits cost ratio of the mushroom

• Mushroom business profit margin : profit margin between 30% to 60% in every condition.

The Zoom interface includes a top bar with "LIVE" and "You are viewing kvk_darrang's screen", a right-hand sidebar with a list of 32 participants (including Sandeepa, Gargaon College, kvk_darrang, Dr. BANASHREE Medhi, Sandeepa Agarwalla, Sangeeta Chelia, Anjan Konwar, Barakha, BIBHUTI BURAGOHAIN, Darchana Konwar, Jinishmita Saikia, Jhormali phukon, Lakishmita das, and Mina Robidas), and a bottom toolbar with controls for Unmute, Start Video, Security, Participants (32), Chat, Share Screen, Record, Reactions, and Apps. A "Leave" button is visible in the bottom right corner. The Windows taskbar at the bottom shows the date as 20-06-2023 and the time as 20:05.

Day 4

3. Silkworm Rearing Techniques

Indoor rearing – Mulberry & Eri

1. Well ventilated fly proof house.
2. Room Disinfection.
3. Kept the Dfls in medium cool place.
4. 23, c to 28°C and 75% to 85% relative humidity for better growth.
5. Feed on time.
6. Feed tender leaf in 1st & 2nd instar.
7. Medium leaf to 3rd & 4th instar.
8. Matured leaf to 5th instar.
9. harvest the ripen worms and kept in a dry leaf chamber called Jhali to form cocoon.



Outdoor rearing – Muga & Tasar

1. Tie the dfls/Kharika around the trunk of the food plant.
2. Protect the worms from predators.
3. Transfer the worms to the suitable foodplant if needed.
4. Harvest the ripen worms and kept in a dry leaf chamber called Jhali to form cocoon

Participants: Sandeepa, Ms. Sangeeta C..., Pranati, Priya Das, BIBHUTI BURA..., Moyuri Konwar, Saurav, Jenishmita Saikia, DIMBESHWAR..., Shyamol, Lucky Rajkumari, Mosliha, Porismita Saikia, Pollob sahu, Manshi Dutta, Arfa Ahmed Bora, Nihha Mech.

SILKWORM NATURE

- Four Moults
- Five Instar
- Metamorphosis

Participants: Sandeepa, Ms. Sangeeta C..., Sandeepa Agar..., Pranati, Priya Das, BIBHUTI BURA..., Moyuri Konwar, Lakishmita das, Saurav, Jenishmita Saikia, DIMBESHWAR..., Shyamol, Lucky Rajkumari, Mosliha, Porismita Saikia, Jhormali phukon, Pollob sahu, Manshi Dutta.

Day 5

LIVE YouTube



Recent Advances in Research on Traditional Knowledge of Medicinal Plants in the light of Sustainable Development Goals (SDG)

Lecture series on Botany
Gargaon College

Presented by-
Devanjal Bora
Senior Scientist (Botany)
North East Herbarium of Ayurveda Research (NEHAR)
Central Ayurveda Research Institute, Guwahati (Assam)
Ministry of Ayush, Govt. of India

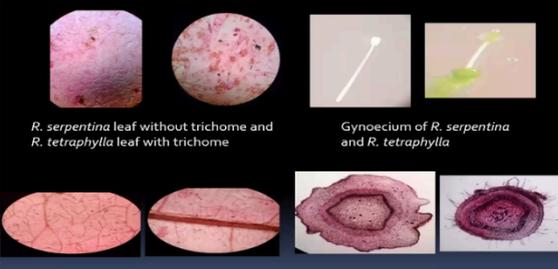
Devanjal Bora

Devanjal Bora

Zoom Meeting You are viewing Devanjal Bora's screen View Options

LIVE YouTube

Morphological and Anatomical differentiation



R. serpentina leaf without trichome and *R. tetraphylla* leaf with trichome

Gynoecium of *R. serpentina* and *R. tetraphylla*

Leaf venation of *R. serpentina* and *R. tetraphylla*

Stem anatomy of *R. serpentina* and *R. tetraphylla*

Devanjal Bora

Devanjal Bora

Unmute Start Video Security Participants 37 Chat Share Screen Record Reactions Apps

30°C Mostly cloudy

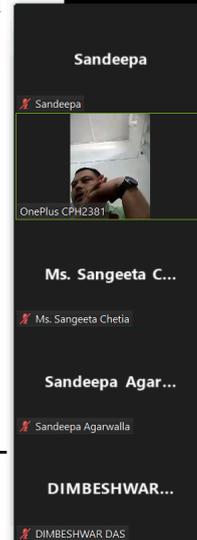
Wildlife Conservation in Medieval India

The rhinoceros existed in the plains of the Indus valley in the vicinity of Mohan-jo-Daro 5000 years ago.

The swamp deer or barasingha was found in Mehrgarh in Baluchistan till around 800 BC

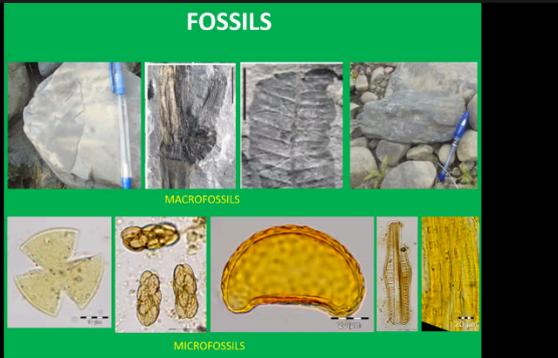
King Ashoka made a law in the matter of preservation of wildlife and environment. He was the establishment of hospital for medical treatment for human and animals; presumably the first of the “Veterinary hospital” in the world.

The *Arthasastra* divided the country between the Himalayas and the oceans into various kinds of regions - Forests (*Aranya*), Village areas (*Gramya*), Mountains (*Parvata*), Plains (*Sama*) and Uneven lands (*Visawa*).



Day 7

Zoom Meeting interface showing a slide titled "FOSSILS". The slide is divided into two sections: "MACROFOSSILS" and "MICROFOSSILS".



FOSSILS

MACROFOSSILS

MICROFOSSILS

Participants list:

- Sandeepa (Gargaon College)
- Pollob sahu
- Nayanmoni Che...
- DIMBESHWAR...
- Sandeepa Agar...
- Shyamol
- Azhara Akhtar
- Mosliha
- Sangeeta Chetia
- Niha Mech
- Echa Mech
- Barakha
- Pranati
- BIBHUTI BURA...

Zoom Meeting interface showing a video of an excavation site. The video is titled "Nongkhum river Island, West Khasi hills".



Nongkhum river Island, West Khasi hills

Participants list:

- Sandeepa
- Pollob sahu
- Nayanmoni Che...
- Mosliha
- Sangeeta Chetia
- Pranati
- Dr. RAJIB GOGOI
- Porismita Saikia
- Darchana Konwar
- Gargaon College
- Khusboo Agarwal
- Azhara Akhtar
- Shyamol
- Prity konwar
- Jenishmita Saikia