

# Report on Seminars and Workshops organized by Science Departments:

## Department of Botany

### 3-DAYWORKSHOP ON

### PLANT MICROPROPAGATION TECHNIQUES

(May 6-8, 2023)



The poster is a vertical rectangular layout with a purple background. At the top left, a black box contains the text 'RESOURCE PERSONS'. Below this, two pink boxes list the resource persons: DR. NANDITA SAHANA (Assistant Professor, Department of Biochemistry, Uttar Banga Krishi Vishwavidyalaya, Pundibari, Cooch Behar) and DR. BINOD CHANDRA SHARMA (Associate Professor, Department of Botany, Acharya B. N. Seal College, Cooch Behar). To the left of the central text is a vertical image of a plant in a white container. The central text is in green and white boxes, detailing target participants (UG & PG students in Bioscience), registration (on spot, no fee), contact details (Dr. Aninda Mandal, Head, Department of Botany, ABN Seal College, Mobile: 9434602182), and a note that no TA/DA will be provided. Below this is the 'PROGRAMME SCHEDULE' in a green box, listing three days of lectures and hands-on training. At the bottom left is a 'REGISTRATION FORM' in a green box with fields for Name, Gender, Department, Semester, Name of the Institute, Email, and Mobile No. The right side of the poster features a large white rounded rectangle containing the logos of the Department of Botany, Acharya B. N. Seal College, Cooch Behar and the Department of Biochemistry, Uttar Banga Krishi Vishwavidyalaya, Pundibari, Cooch Behar. It also states the workshop is organized by the Department of Biochemistry, Uttar Banga Krishi Vishwavidyalaya, Pundibari, Cooch Behar, and provides the date (May 6-8, 2023; 11:00 AM onwards) and venue (Department of Botany, Acharya B. N. Seal College, Cooch Behar & Department of Biochemistry, Uttar Banga Krishi Vishwavidyalaya, Pundibari, Cooch Behar).

**RESOURCE PERSONS**

**DR. NANDITA SAHANA**  
Assistant Professor  
Department of Biochemistry  
Uttar Banga Krishi Vishwavidyalaya  
Pundibari, Cooch Behar

**DR. BINOD CHANDRA SHARMA**  
Associate Professor  
Department of Botany  
Acharya B. N. Seal College  
Cooch Behar

Target participants: UG & PG students (Bioscience)  
Registration: On spot  
Registration Fee: Nil  
Contact details: *Dr. Aninda Mandal*  
Head, Department of Botany  
ABN Seal College  
Mobile: 9434602182  
Note: No TA/DA will be provided for participating in the workshop.

**PROGRAMME SCHEDULE**

Day 1: Lectures on Plant Micropropagation Techniques, Hands-on training on Plant Micropropagation Techniques  
Day 2: Hands-on training on Plant Micropropagation Techniques  
Day 3: UBKV Tissue Culture Laboratory visit & Hands-on training on Plant Micropropagation Techniques

**REGISTRATION FORM**

Name:  
Gender:  
Department:  
Semester:  
Name of the Institute:  
Email:  
Mobile No:

**Department of Botany**  
Acharya B. N. Seal College  
Cooch Behar

*In Collaboration with*

**Department of Biochemistry**  
Uttar Banga Krishi Vishwavidyalaya  
Pundibari, Cooch Behar

*Organizes*

**Workshop**  
On  
**PLANT MICROPROPAGATION**  
**TECHNIQUES**

(May, 6-8, 2023; 11:00 AM onwards)

**Venue**  
Department of Botany  
Acharya B. N. Seal College  
Cooch Behar  
&  
Department of Biochemistry  
Uttar Banga Krishi Vishwavidyalaya  
Pundibari, Cooch Behar

## SUMMARY REPORT

A three day long workshop was jointly organised by Department of Botany, ABN Seal College, Cooch Behar and Department of Biochemistry, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar from 6<sup>th</sup> to 8<sup>th</sup> May, 2023. The objectives of the workshop were to inculcate the basic knowledge of plant tissue culture among the students of this region and its applications. A good number of students from host institution and surrounding colleges actively participated in the workshop including hands on training on plant micropropagation techniques.

A total of 47 UG students from different colleges (36 – ABNSC, 10 – Tufanganj Mahavidyalaya, 1 – Dinhat College) were participated in this.

### **Day 1 (06/06/2023)**

The inaugural session was commenced from 11:00 am in presence of Dr. Nilay Ray (Principal, ABN Seal College); Sri Chandra Sekhar Pandit (Secretary, Teachers' Council, ABNSC); Dr. Arijit Chakraborty (Coordinator, IQAC, ABNSC); Dr. Nandita Sahana (Resource person, Department of Biochemistry, UBKV), Dr. Aninda Mandal (Head, Department of Botany, ABNSC); faculty members and students. Dr. Binod Chandra Sharma welcomed all the dignitaries and students. Dr. Nilay Ray (Principal, ABNSC) highlighted the importance of imparting hands on training programmes for the overall development of students.

**Technical Session 1:** Dr. Nandita Sahana discussed the history & development of plant tissue culture, various aspects & techniques, scope of micropropagation at regional as well as national level. She also highlighted on the ongoing research projects on micropropagation at UBKV. The lecture was followed by interactive session where Dr. Sahana replied to all queries made by students related to micropropagation of potato and other cash crops of the region.

**Technical Session 2:** Dr. Binod Chandra Sharma began the session with brief introduction on the requirements of tissue culture facility. Then the students were brought to laboratory and demonstrated the process of media preparation, sterilisation and *in vitro* inoculation.

### **Day 2 (07/05/2023)**

**Technical Session 1:** Hands on training on media preparation and sterilisation techniques were imparted to all the students by Dr. Sharma. All the students actively involved themselves in the preparation of Murashige and Skoog (MS) agar medium, autoclaving and preparation of stabs.

**Technical Session 2:** MS medium stab, leaf explant, surface sterilants were provided to the students. Each of them inoculated the leaf explant following all the protocols using the laminar airflow cabinet available in the department. The inoculated stabs were placed inside the plant growth chamber for growth and development.

### **Day 3 (08/05/2023)**

**Institutional Visit:** All the students and faculty members assembled in the college at 10:30 am and reached the Directorate Research Building of Uttar Banga Krishi Viswavidyalaya. Dr. Nandita Sahana welcomed all of us and guided to Micropropagation Room. The culture room was full of well-developed *in vitro* clonal population of banana, gerbera, cinchona, potato, citrus, mainly. The students were made aware difficulties in plant micropropagation showing the contaminated bottles. The students were also acquainted with the orientation of media preparation room and inoculation room as well as the different types instruments like laminar airflow cabinet, autoclaves, dissecting microscopes etc. Then we were guided to hardening facility and shown successfully hardened (ready to transplant) plantlets.

**Conclusion:** The workshop could impart the knowledge of plant micropropagation among the participants along with the hands on training. The preliminary training of tissue culture including inoculation in ABN Seal College and the observation of expected results in UBKV generated interest among the participants. They can utilise the skills learnt during the workshop leading themselves to successful and self-reliant entrepreneurs.

**Future:** Well established tissue culture facility may be established in the institution so that we can impart long term training to the students as well as local entrepreneurs. More works can be initiated taking endangered medicinal as well as timber plants for the conservation of biodiversity in this ethnobotanically rich region of India.

## PHOTO GALLERY



**Inauguration**



**Lecture**





**Introductory Session**

**Hand-on Training**

**PHOTO GALLERY**



**Lecture**



**Hands-on Training**



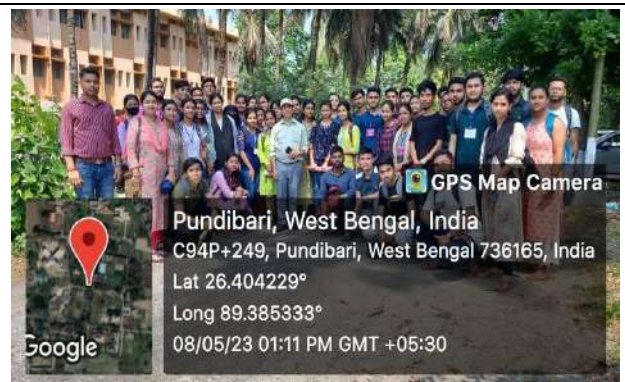
**Demonstration at UBKV**



**Demonstration at UBKV**



**Participants**



**Participants**

## **Department of Botany**

### **A. J. C. BOSE MEMORIAL LECTURE ON "Insights into Citrus: Domestication and Cultivation"**

*Organized by*  
**Department of Botany, A. B. N. Seal College, Cooch Behar, West Bengal 736 101**

The Department of Botany, ABN Seal College, Cooch Behar has been organizing Lecture series called as AJC Bose Memorial Lecture on annual basis inviting resource persons working on the field of applied Botany. In continuation of the lecture series this academic session (2022-2023) we approached Dr. Kishore Kumar Thapa, Head, Department of Botany, Dinhata College, Dist. Cooch Behar, West Bengal and he kindly gave his consent for delivering a popular lecture entitled **"Insights into Citrus: Domestication and Cultivation"** on 12/05/2023. The students of the different Departments of the College registered themselves for the lecture at 2:30 pm on 12/05/2023 at Vidyasagar Sabhagriha (Seminar Hall) of the College. The programme started at 3:00 pm with welcome address by Dr. Binod Chandra Sharma, Associate Professor of the Department of Botany in presence of Dr. Nilay Ray (The Principal, ABNSC), Dr. Kishore Kumar Thapa (Resource person), Dr. Aninda Mandal (Head, Department of Botany, ABNSC), Sri Ajoy Das (Assistant Professor of Botany, ABNSC), Dr. Bapi Ghosh (Assistant Professor of Botany, ABNSC), Smt. Mousikha Lala (Assistant Professor of Botany, ABNSC), Smt. Jayita Debnath (SACT of Botany, ABNSC) and students from Department of Botany, Zoology, Physiology. Dr. Nilay Ray, Principal, ABN Seal College addressed the gathering highlighting the importance of holding such kind of memorial lectures in the College as a whole to aware the students on modern scientific developments and ignite their interest in the field of research. Dr. Thapa began his deliberation with brief introduction on plantation crops of North Bengal. Then he discussed the origin and distribution of citrus in the world. According the studies so far China is considered as the centre of origin of citrus. In India basically there are four cultivars of *Citrus reticulata* (mandarin orange) namely, Khasi Mandarin, Darjeeling Mandarin, Nagpur mandarin and Coorg Mandarin. In addition to these a number of different varieties of lime and lemon are cultivated and marketed in India. Dr. Thapa also highlighted on the present constrains in mandarin cultivation due to heavy loss of citrus crops owing to bacterial, fungal, viral, nematode and insect diseases. Citrus greening disease (a bacterial disease) and a viral disease caused by *Citrus tristeza* virus are the main cause of concern for Darjeeling mandarin. Dr. Thapa suggested for a proper quarantine facility and integrated disease management involving all the stakeholders. The students actively participated by placing a number of queries related to varieties and diseases of citrus and Dr. Thapa was able to convince them with appropriate examples. The lecture series ended with a vote of thanks.



Brief details of the eminent speaker and nature of participants are given below:

Name of the Speaker	Designation & Affiliation
Dr. Kishore Kumar Thapa	Head, Department of Botany, Dinhata College, Dinhata, West Bengal – 736 135, India

Nature of Participants	In house	External	Total Nos. of Participants
No. of teacher participants	08	Nil	08
No. of student participants	47	Nil	47



**Department of Botany**  
**Acharya B. N. Seal College**  
COOCH BEHAR, WEST BENGAL 736 101, INDIA

*Organizes*

**A. J. C. Bose Memorial Lecture**

on

**"INSIGHT ON CITRUS: DOMESTICATION TO CULTIVATION"**

**RESOURCE PERSON**

**Dr. Kishore Kumar Thapa**  
Head, Department of Botany  
Dinhata College  
Dinhata, West Bengal – 736 135, India

**Date: 12<sup>TH</sup> MAY, 2023**

**9**



**Time: 3:00 PM (IST)**



**Venue: Vidyasagar Sabhagriha  
A. B. N. Seal College**

**ORGANIZING COMMITTEE**

**Patron:**

**Dr. Nilay Ray, Principal, A. B. N. Seal College**

**Advisors:**

**Dr. Arijit Chakraborty, Coordinator, IQAC, ABNSC**

**Sri Chandra Sekhar Pandit, Secretary, Teachers' Council, ABNSC**

**Organizing Members: Faculty Members of Department of Botany  
A. B. N. Seal College**

**Registration: On Spot**

**Registration Fee: Nil**

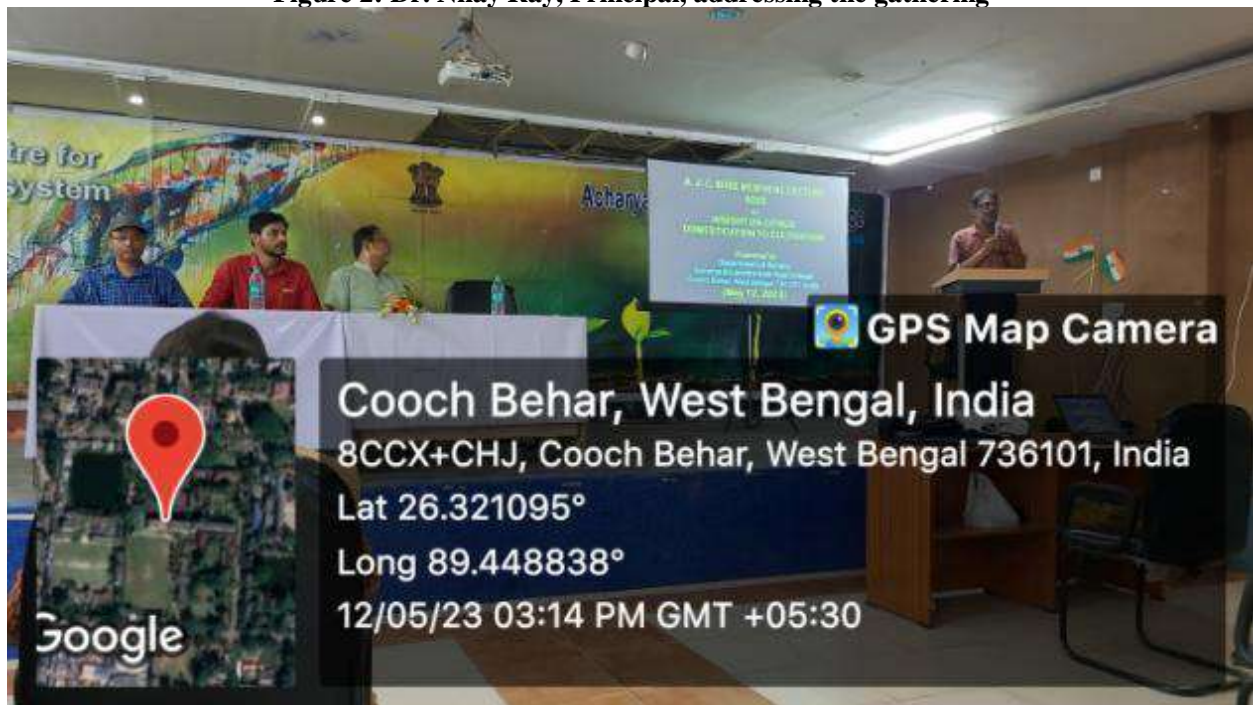
**Certificate will be issued to the registered participants after successful participation**

## PHOTO GALLERY

Figure 1: Welcome address by Dr. Binod C. Sharma, Associate Professor of the Department of Botany



Figure 2: Dr. Nilay Ray, Principal, addressing the gathering





## PHOTO GALLERY

Figure 3: Dr. Thapa, Resource Person, delivering his lecture

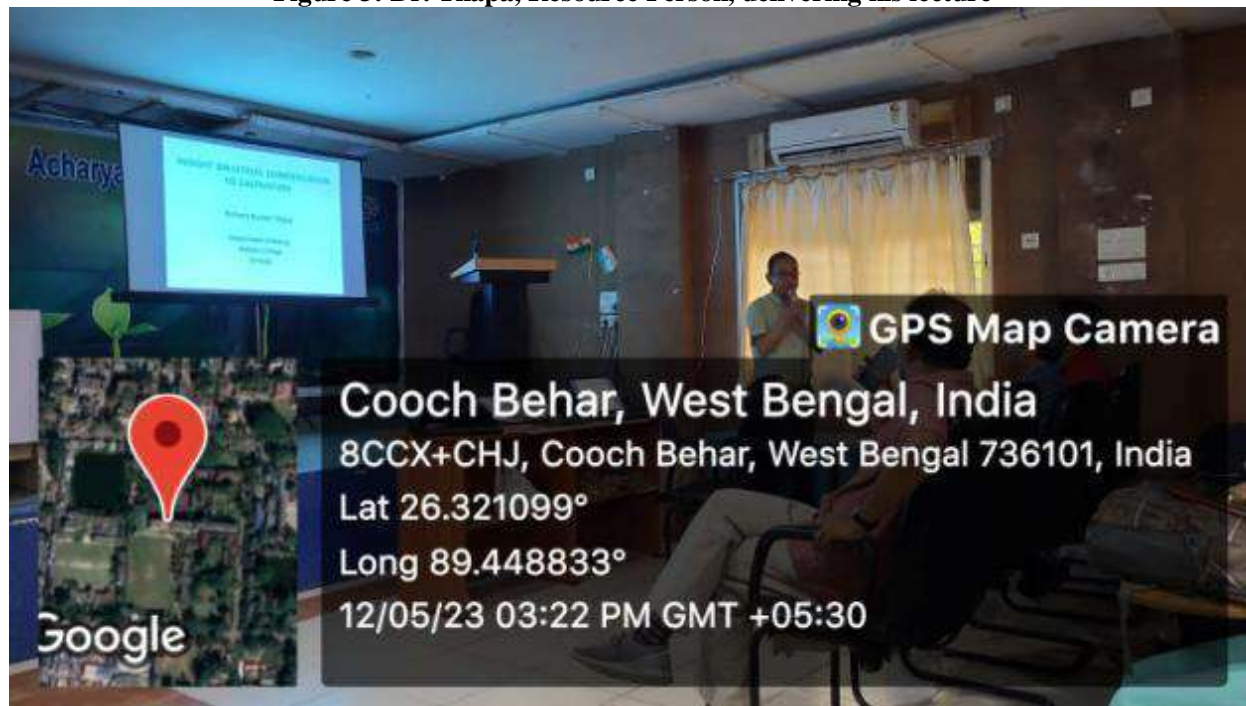
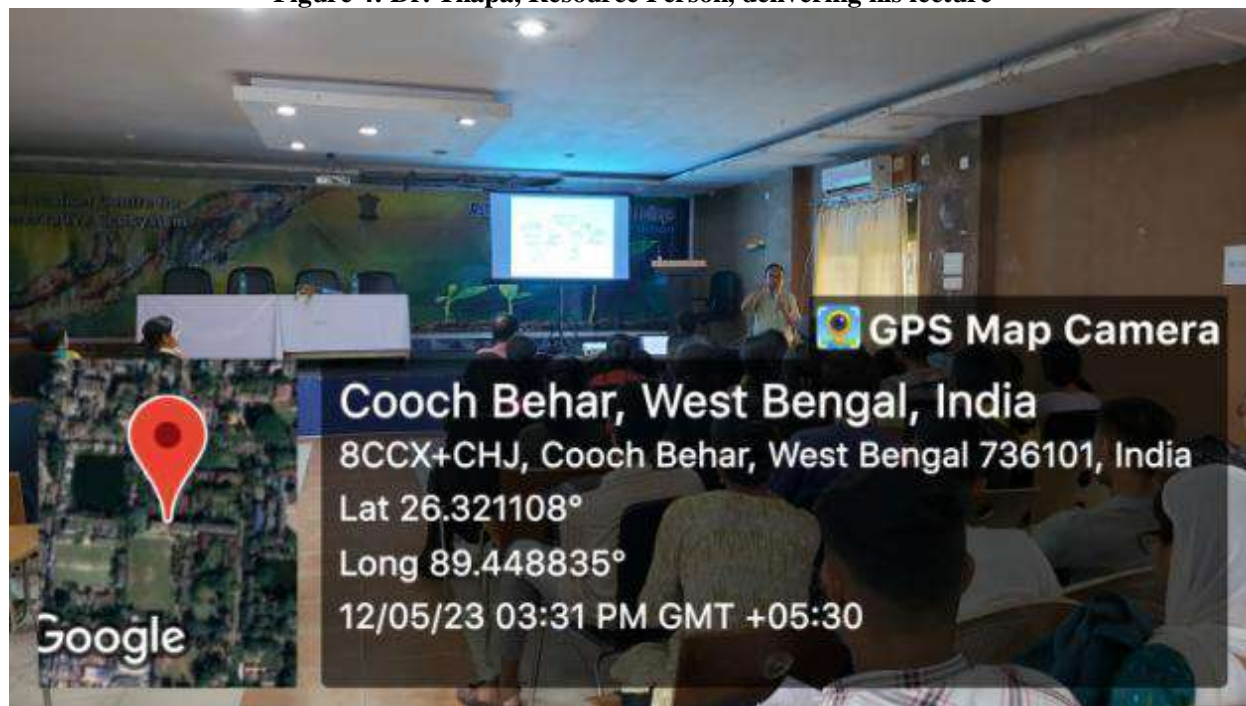


Figure 4: Dr. Thapa, Resource Person, delivering his lecture





## Department of Chemistry:

### Report on Asima Chatterjee Memorial Lecture

#### Background

The Department of Chemistry, A. B. N. Seal College is one of the prestigious departments run since long. In each year department come in contact with a branch of creamy students of the Cooch Behar and Alipurduar District. Those who opt for pursuing their course in this department are generally highly ambitious. Since the ambition of the student are highly focus, as compared to the other institute of nearby; therefore, we always think not to restricted our student with conventional lecture, rather promote to give them exposure. In this connection we will always looking for opportunities to break down such barriers and the Department of Chemistry has arranged a memorial lecture on 12/05/2023 by the name of Dr. Asima Chatterjee (1<sup>st</sup> woman DSc of India) to tribute her contribution in the field of Chemistry particularly in Medicinal Chemistry and Prof. Pranab Ghosh, dignitary Organic Chemist, University of North Bengal was the resource person.

**Acharya Brojendra Nath Seal College**  
Department of Chemistry

*Cordially invite you all to the*  
**Asima Chatterjee Memorial Lecture**  
*(First woman DSc of India)*

**Asima Chatterjee**, a renowned Indian Chemist, was the first woman to receive a DSc degree from University of Calcutta in 1944, and becoming the first female recipient of Shanti Swarup Bhatnagar award (highest science awards in India) in the year 1961. She was also the first woman to hold the chair of any Indian University (at University of Calcutta), and also served as general president of Indian Science Congress. She made significant contribution to Medicinal Chemistry, Natural product Chemistry and Organic Chemistry, particularly in alkaloid and terpenoid. Dr. Chatterjee successfully developed several plant based medicine including anti-elipatic drug 'Marsiline' and anti-malarial drug 'Ayush-56'. She also dedicated forty years of her time to research on cancer and anti-cancer growth drugs. She also established Central Ayurveda Research Institute, Kolkata.

**Topic: Phytochemicals: Isolation, purification and characterization**

**Speaker:**  
**Prof. Pranab Ghosh**  
Professor  
Department of Chemistry  
University of North Bengal

**Date:** 12<sup>th</sup> May 2023, Friday at 12.00 noon  
**Venue:** Gallery (room no. B-105), Department of Chemistry, A. B. N. Seal College

**Patron:**  
Dr. Nilay Ray  
Principal  
A. B. N. Seal College

**Advisors:**  
Dr. Arjith Chakraborty  
Coordinator, IQAC  
A. B. N. Seal College

Mr. Chandra Sekhar Pandit  
Secretary, Teachers' Council  
A. B. N. Seal College

**Convener:**  
Dr. Sriji Das  
Associate Professor and Head  
Department of Chemistry  
A. B. N. Seal College

**Members:**  
All faculty Members  
Department of Chemistry  
A. B. N. Seal College

**Registration: On Spot  
Registration Fee: Nil**

<b>Topic</b>	<i>Phytochemicals: Isolation, purification and characterization</i>
<b>Participants</b>	All faculty members and All UG Students
<b>Speaker</b>	Prof. Pranab Ghosh, Professor, Dept. of Chemistry, University of North Bengal
<b>Date</b>	12/05/2023
<b>Time</b>	12:00 noon
<b>Venue</b>	Gallery room, Dept. of Chemistry, A. B. N. Seal College

## **Objective**

Choosing the title of memorial lecture by the name of Asima Chatterjee is mainly introduce her grace contribution in the field of science among the students. Although her remarkable contribution is endless, even her involvement is not that much familiar to UG students. Therefore, first objective Strick on our mind to familiarize the motivational journey of the lady chemist. Further this will give an extra courage to the female students too. Moreover, we strongly feel that such kind of lecture or seminar give the student a different kind of flavor which may sometimes open a new window for them. Student even get an idea of the research level work. Also, the interactive session with the dignitary renounced faculty of another institute provide them another level confidence. Another core purpose of the lecture series was mainly motivating our student on the field of Chemical science.

## **Breakthrough and outcomes**

We all the faculty member of the department had eagerly participate in the lecture. The student attendance was almost 100 %. The speaker starts the deliberation by remembering the life journey of Dr. Asima Chatterjee, and thereby her contribution in the field of Organic Chemistry and Medicinal Chemistry. With then this short motivating inspiring story of Dr. Chatterjee, speaker enter into the main topic of deliberation about Phytochemicals. Prof. Ghosh deliver the talk for about 2 hours with his own style. Prof. Ghosh present the topic in a very lucid and simplest way, which make digestible for all graded. The aforementioned topic was very much connecting and relevant with the UG students. It was observed that all of the listener was enjoying the whole session. Remarkably Prof. Ghosh related the topic of his deliberation with availability of medicinal plant and its medicinal need in North Bengal, especially with the interior region. He shared some of his own practical day to day experience regarding this topic. More interestingly, after the completion of the long two hours deliberation, the interactive session was run about more than half an hour. The curiosity among the students was enormously high. Students also shared their willingness of higher study and take some suggestion from the speaker. It was a friendly and very much effective interactive session. Overall, it was very fruitful for the students in their carrier advancement.

Some Glimpses are as follows:





## Department of Mathematics:

Report on Srinivasan Ramanujan Memorial Lecture 2022, organized by Department of Mathematics, ABN  
SEAL College

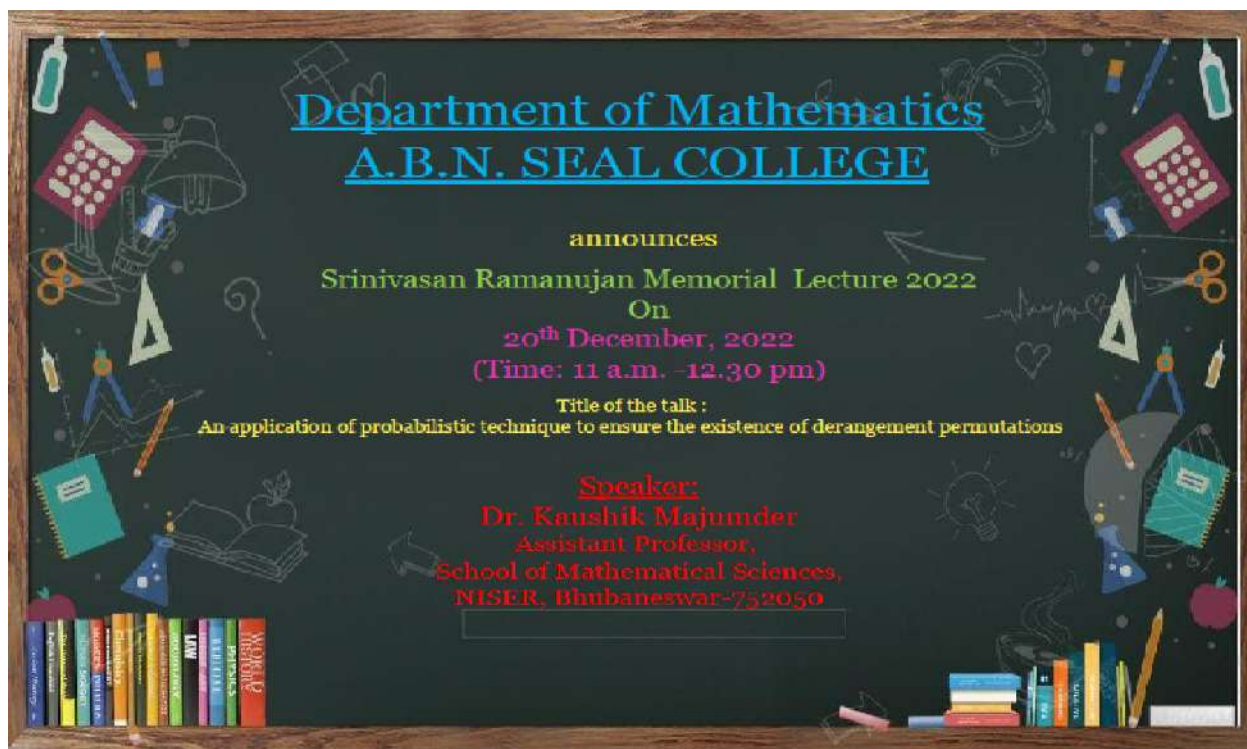
**Topic: An application of probabilistic technique to ensure the existence of derangement permutations**

**Speaker: Dr. Kaushik Majumdar**

**Date: 20.12.2022**

**No. of participants: 60**

Department of Mathematics, ABN Seal College organized Srinivasan **Ramanujan Memorial Lecture 2022** on 20.12.2022 in the Seminar hall of our department. Head of the Department and convener Dr. Tausif Sk. organized this event as Departmental Lecture in memory of great Indian mathematician Dr. S. Ramanujan. The Principal of the college, Dr. Kalyan Sinha, Dr. Amar Sha and Mr. Milan Singha shared their knowledge on this great mathematician. The chief Guest of the event was Dr. Kaushik Majumdar. He is currently an Associate Professor of NISER Bhubaneswar. Dr. Tausif Sk., welcomed the Chief Guest, Principal and the audience. Dr. Kalyan Sinha gave the introduction of Dr. K. Majumdar. He delivered his lecture on the topic “**An application of probabilistic technique to ensure the existence of derangement permutations**”. He explained in an interesting manner how we got derangement ideas from our daily life. He elaborated the circumstances and events step by step leading to the topic on the basis of our daily life. This generated a plethora of excitement among the audience. At the end Dr. Amar Sha proposed the vote of thanks to the organizers and the college administration. It was an enriching experience for the students and the event was executed flawlessly by the student team of Mathematics Department. We the teachers and students thank our principal who gave this opportunity to organize such an event.







A B N Seal College Department of Mathematics <math.abnso@gmail.com>

Invitation letter

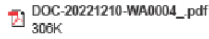
3 messages

A B N Seal College Department of Mathematics <math.abnso@gmail.com> 10 December 2022 at 13:56  
To: "kaushikmajumder@niser.ac.in" <kaushikmajumder@niser.ac.in>

Dear Sir,  
Please consider this email as an invitation letter for our departmental upcoming webinar. Formal invitation letter is attached to this mail.

We hope that our students will learn some new interesting topics from your lecture.

With regards,  
Dr. Kalyan Sinha,  
Assistant Professor,  
Department of Mathematics,  
ABN Seal College, Coochbehar



Kaushik Majumder <kaushikmajumder@niser.ac.in> 11 December 2022 at 09:45  
To: A B N Seal College Department of Mathematics <math.abnso@gmail.com>

Dear Dr Sinha,

I am glad to visit your department on December 19-20, 2022. Here I am attaching the title and abstract of the talk. The talk is aimed at undergraduate students with knowledge of permutation mapping.

Title:: An application of probabilistic technique to ensure the existence of derangement permutations

Abstract: Randomness is a valuable tool for solving problems in Mathematics. In this talk, we discuss a technique to understand existence without constructing a derangement permutation. This technique has a lot of impact in Mathematics and such technique is known as the first-moment probabilistic method.

Thanks and regards  
Kaushik Majumder  
Assistant Professor  
School of Mathematical Sciences  
National Institute of Science Education and Research Bhubaneswar  
P.O. Jatni, Khurda-752050, Odisha, India  
[Quoted text hidden]

A B N Seal College Department of Mathematics <math.abnso@gmail.com> 14 December 2022 at 17:22  
To: Kaushik Majumder <kaushikmajumder@niser.ac.in>

Dear Sir,  
Please find the attachment with regards,  
Kalyan Sinha  
[Quoted text hidden]



## Department of Physics:

### “TOPICAL RESEARCH SCHOOL ON QUANTUM FOUNDATION AND QUANTUM INFORMATION 2023 (TRSQFQI2023)”

A “TOPICAL RESEARCH SCHOOL ON QUANTUM FOUNDATION AND QUANTUM INFORMATION 2023 (TRSQFQI2023)” was organised by the Department during 14/3/2023-16/3/2023 in collaboration of S N Bose National Centre for Basic Sciences, Kolkata. SNBNCBS, Kolkata also partially funded for the Research School. As many as 15(fifteen scientist from various Academic Institutes such as SNBNCBS;Kolkata; Bose Institute,Kolkata; ISI,Kolkata; Calcutta University, IMSC,Tamilnadu; University of Hongkong; Harimohan Ghosh College,Kolkata delivered their lecture on different topic of Quantum Foundation and Quantum Information. Studnets, Research Scholars and Faculty members of ABN Seal College, Cooch Behar College, Alipurduar University etc of the region participated in the Research School. As many as 72 participant attended the Research School.

**TOPICAL RESEARCH SCHOOL ON QUANTUM FOUNDATION AND QUANTUM INFORMATION 2023 (TRSQFQI2023)**

Organized by  
Department of Physics, A B N Seal College, Cooch Behar  
in collaboration with  
S N Bose National Centre for Basic Sciences, Kolkata

Click here for registration

Registration charges-  
Students-Rs 200/-,  
Research Scholars-300/-,  
Faculty members-Rs 500/-

Topic of Lectures:  
Quantum Foundation  
Quantum Information, Communication, Application  
Quantum Games and Recent Development

More than 15 Distinguished Resource Persons, Formal and Informal Discussions

Date: 14/03/2023 to 16/03/2023  
Time: 11AM to 5PM  
Venue: Vidyasagar Sabhagriha, Centenary Building

Some Distinguished Resource Persons:  
Prof. Sibasish Ghosh, IMSC, Tamilnadu  
Prof. Archan S Majumder, SNBNCBS, Kolkata  
Prof. Guruprasad Kar, ISI, Kolkata

Inauguration by Sri Pawan Kadyan, District Magistrate, Cooch Behar

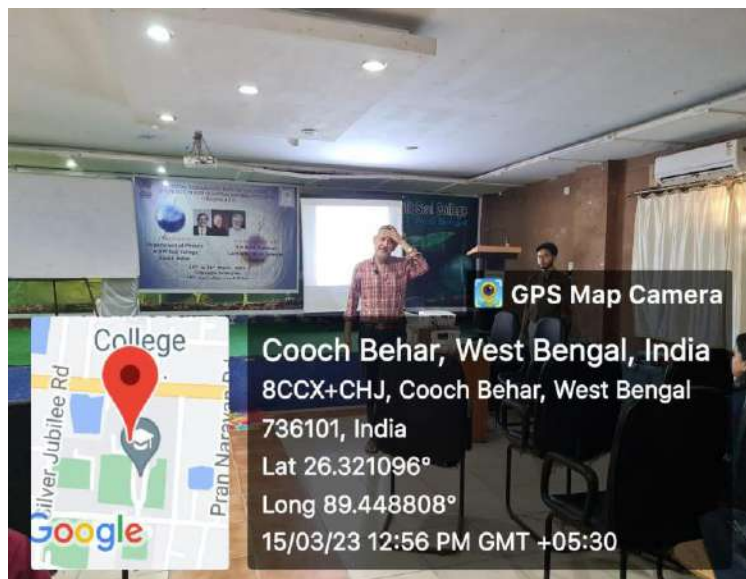
Patron: Dr. Nilay Ray, Principal, ABNSC, Cooch Behar; Chairman: Dr. Archan S Majumdar, Senior Professor, SNBNCBS, Kolkata. Vice Chairman: Dr. Manik Banik, Associate Professor, SNBNCBS, Kolkata; Dr. Arijit Chakraborty, Coordinator, IQAC, ABNSC, Cooch Behar; Convener: Dr. Sanjkar Mandal, HOD, Department of Physics, ABNSC, Cooch Behar

Organizing Secretary: Dr. Arup Roy, Assistant Professor, ABNSC, Cooch Behar; Treasurer: Chayan Saha, Assistant Professor, ABNSC, Cooch Behar; Organizing Members: Suchismita Maiti, Assistant Professor, ABNSC, Cooch Behar; Abu Bakkar Siddik, Assistant Professor, ABNSC, Cooch Behar; Dr. Prithwijita Ray, Assistant Professor, ABNSC, Cooch Behar

এবিএন শীলে  
কোয়ান্টাম  
বলবিদ্যা নিয়ে  
সেমিনার

কোচবিহার, ১১ মার্চ : কোয়ান্টাম  
বলবিদ্যা সম্পর্কিত বিষয় নিয়ে এই  
প্রথমবার বিশেষ আলোচনা সভা  
আয়োজিত হচ্ছে কোচবিহারের এবিএন  
শীল কলেজে। ১৪-১৬ মার্চ কলেজের  
শ্রেণীকক্ষে এই আলোচনা সভা হবে।  
এসএন বোস ন্যাশনাল সেন্টার ফর  
বেসিক সায়েন্স এবং এবিএন শীল  
কলেজের পদার্থবিদ্যা বিভাগের হৌখ  
উদ্যোগে প্রথমবার এই গবেষণামূলক  
আলোচনা সভার আয়োজন করা হচ্ছে।  
যার পোশাকি নাম 'উপিত্যাল রিসার্চ  
স্কুল' কলেজের অধ্যক্ষ ডঃ নিলয় রায়  
বলেন, 'উত্তর-পূর্বাঞ্চলে প্রথমবার  
এধরনের আলোচনা সভার আয়োজন  
করা হচ্ছে। আমরা এতে খুবই খুশি।'  
আধুনিক গবেষণার নিরিখে  
কোয়ান্টাম বলবিদ্যার প্রারম্ভিক  
সূচনা এবং অদূর ভবিষ্যতে কী করে  
কোয়ান্টাম বলবিদ্যা তথা বিনিময়ের  
পরিসরে গুরুত্বপূর্ণ ভূমিকা করে নেবে,  
সেইসব বিষয় নিয়ে সভায় আলোচনা  
হবে। পশ্চিমবঙ্গের বিভিন্ন জেলা তো  
বটেই, তামিলনাড়ু, মিজোরাম বিদেশের  
কয়েকজন বিশিষ্ট বিজ্ঞানীও এই সভায়  
অংশ নেবেন। কোচবিহার জেলা  
এবং আশপাশের জেলার কলেজের  
অধ্যাপকদের পাশাপাশি গবেষক এবং  
পড়ুয়ারাও সেখানে উপস্থিত থাকবেন।  
কলেজের পদার্থবিদ্যা বিভাগের  
প্রধান ডঃ শংকর মণ্ডল বলেন,  
'এই প্রথমবার এধরনের আলোচনা  
সভার আয়োজন করা হচ্ছে। উত্তম  
প্রজন্মের গবেষণামনস্কতা বৃদ্ধি  
করাই এর মূল উদ্দেশ্য।' কলকাতার  
ইন্ডিয়ান স্ট্যাটিস্টিক্যাল ইনস্টিটিউটের  
অধ্যাপক গুরুপ্রসাদ কর, তামিলনাড়ুর  
আইএমএসসির শ্রীবাস হোষ,  
কলকাতার এসএনএবিএনসিবিএসের  
অধ্যাপক অর্চন মজুমদার সহ ১৫  
জন বিজ্ঞানী আলোচনা সভায়  
অংশ নেবেন।






**Department of Physics:**

**“Aryabhata Memorial Lecture 2023**

“Aryabhata Memorial Lecture 2023” was organised on 20/5/2023 in online mode on Google Meet platform. Professor Anindya Datta of School of Basic & Applied Sciences Guru Govind Singh Indraprastha University, New Delhi delivered a lecture on “Playing with Order.” Dr. Datta who has worked extensively on nanomaterials delivered an interesting lecture on the emerging field of nanoscience including its synthesis and different application in devices. As many as 46 students and faculty members attended the online seminar. The seminar ended with a questionnaire session followed by vote of thanks.

  
**ABN SEAL COLLEGE COOCH BEHAR**  
**Department of Physics**  
**ARYABHATTA MEMORIAL LECTURE 2023**  
**Playing with Order**  
**Invited Speaker**  
**Prof. Anindya Datta**  
 School of Basic & Applied Sciences  
 Guru Govind Sing Indraprastha University, New Delhi

**Date & Time**  
 20<sup>th</sup> May, 2023 at 4PM

**Platform: Google Meet**  
**To Join Click:**  
<https://meet.google.com/wdix-ztdh-mqz>

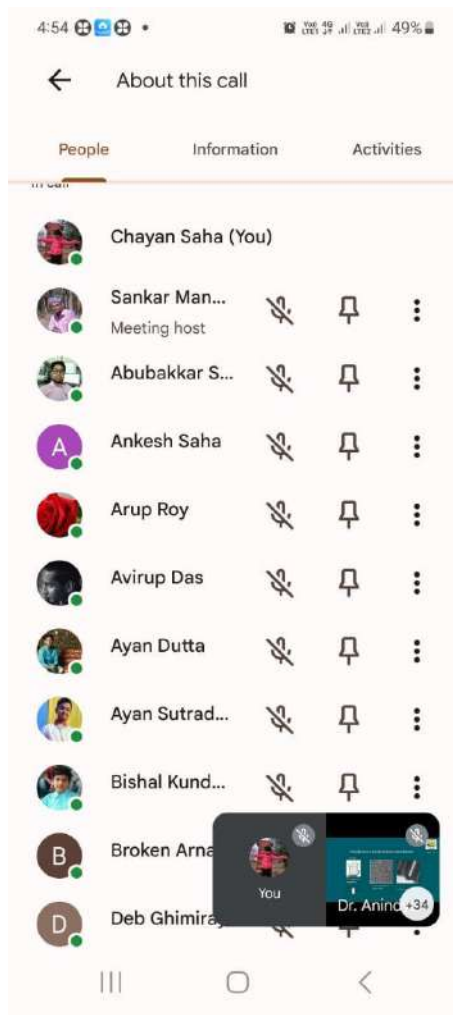
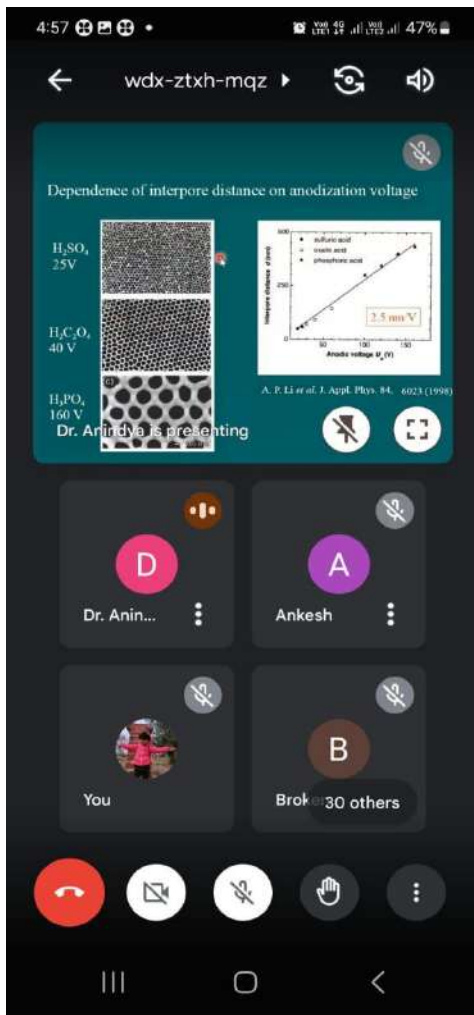
**Patron:**  
Dr. Nilay Ray  
Principal, A.B.N. Seal College

**Advisors:**  
Dr. Arijit Chakraborty, Coordinator, IQAC  
Sri Chandra Shekhar Pandit, Secretary,  
Teachers' Council



**Convener:**  
Dr. Sankar Mandal  
HOD, Department of Physics

**Organising Members:**  
Suchismita Maiti, Assistant Professor, Dept. of Physics  
Chayan Saha, Assistant Professor, Dept. of Physics  
Abu Bakkar Siddik, Assistant Professor, Dept. of Physics  
Dr. Arup Roy, Assistant Professor, Dept. of Physics  
Dr. Prithwijita Ray, Assistant Professor, Dept. of Physics





## Department of Physiology

### One-day Jyoti Prakash Haldar Memorial Lecture, 2023 on “*Nutrition in Health and Disease*”

Department of physiology conducted **One-day Jyoti Prakash Haldar Memorial Lecture, 2023** on “*Nutrition in Health and Disease*” on 19<sup>th</sup> June, 2023. Speaker Dr. A. B. H Itagi, Assistant Professor, AIIMS, AP beautifully delivered information on common nutritional health problems.

DEPARTMENT OF PHYSIOLOGY  
Acharya Brojendra Nath Seal College  
Cooch Behar, West Bengal



Invites Your Participation to the  
**JYOTI PRAKASH HALDER  
MEMORIAL LECTURE, 2023**  
**NUTRITION IN  
HEALTH  
AND DISEASE**



**SPEAKER**



**Dr. Afreen Begum H Itagi**  
Assistant Professor  
Department of Physiology  
AIIMS, Mangalagiri  
Andhra Pradesh

Date: JUNE 19, 2023  
TIME: 12 PM Onwards  
Platform: Google Meet

**Patron**  
Dr. Nilay Ray  
Principal  
A.B.N. Seal College,  
Cooch Behar

**Advisors**  
Dr. Arijit Chakraborty  
Coordinator, IQAC  
A.B.N. Seal College, Cooch Behar  
&  
Sri Chandra Sekhar Pandit  
Secretary, Teachers' Council  
A.B.N. Seal College, Cooch Behar

**Organised By**  
DEPARTMENT OF PHYSIOLOGY  
Acharya Brojendra Nath Seal College  
Cooch Behar, West Bengal

**Registration Link:**  
<https://forms.gle/mj8yMa9LRazX5RAZA>

Join WhatsApp Group after Registration  
Contact us: 8388836165

Pasang Tshering Dukpa is presenting

According to the CHEMICAL NATURE

- 1 CARBOHYDRATES**  
Carbohydrates are the primary fuel source for the body. They are broken down into glucose, which is used for energy. They are found in grains, fruits, and vegetables.
- 2 PROTEINS**  
Proteins are essential for building and repairing tissues. They are found in meat, fish, eggs, and legumes.
- 3 FATS**  
Fats are a source of energy and help absorb vitamins. They are found in oils, butter, and nuts.
- 4 FIBER**  
Fiber is important for digestive health. It is found in whole grains, fruits, and vegetables.
- 5 MINERALS**  
Minerals are essential for various body functions. They are found in a variety of foods, including fruits, vegetables, and grains.
- 6 VITAMINS**  
Vitamins are essential for overall health and well-being. They are found in a variety of foods, including fruits, vegetables, and grains.
- 7 WATER**  
Water is essential for life. It helps regulate body temperature and transport nutrients. It is found in water, fruits, and vegetables.

ACCORDING TO THE BC

Energy giving foods

- The carbohydrates and proteins are considered energy giving foods, so they perform the need.

Body building foods

- Foods such as carbohydrates & proteins are considered body-building foods that form the body.

Protective foods

- Vitamins and minerals that help in body processes, from various diseases.



Nashrin Mitu



Urbeeshi Barman



Sangit Mitra

People



- Ankita Barman
- Ankita Chakraborty
- Ashaf AJ Amin Hoque
- Barnali Barua
- Brototi Roy
- Captain Rup
- Dakshayani Mahapatra
- DEBARATI BHATTACHA...
- Dipannita Chakdar
- Disha Saha
- Dr Afreen Begum Hasan...
- Dr. Tridib Chakraborty
- Gourav Roy
- Iswari Ray
- Jaba Biswas
- Jayshree Roy
- Joyeeta Barman
- Mamoni Karjee
- Mithicat Narjinary
- Nashrin Mitu
- Neha
- Nilay Ray
- nishoeth sarkar
- Pasang Tshering Dukpa Meeting host
- Pasang Tshering Dukpa Meeting host



## Department of Physiology

### Career Counselling and Motivational Speech

Career Counselling and Motivational Speech was conducted by the physiology department on 30<sup>th</sup> March, 2023.

**DEPARTMENT OF PHYSIOLOGY**  
**A.B.N. SEAL COLLEGE**  
**COOCH BEHAR**

**ORGANISES**  
**A ONE DAY "CAREER COUNSELLING & MOTIVATIONAL SPEECH"**

**SPEAKER: DR. SANJIB RAY**  
**ASSOCIATE PROFESSOR & HEAD**  
**DEPARTMENT OF ZOOLOGY**  
**UNIVERSITY OF BURDWAN**

**VENUE: S 107 (SATAVISHA BUILDING)**      **DATE & TIME: 30TH MARCH, 2023; 3.00 PM**







## Department of Zoology

### Report on the Commemorative Lecture

This is the utmost pleasure to inform that the Post Graduate Department of Zoology of Acharya Brojendra Nath Seal College and the Department of Zoology of Cooch Behar Panchanan Barma University have collaboratively organised a commemorative lecture on the occasion of 70 years of discovery of molecular structure of DNA by Watson, Crick and Wilkins.

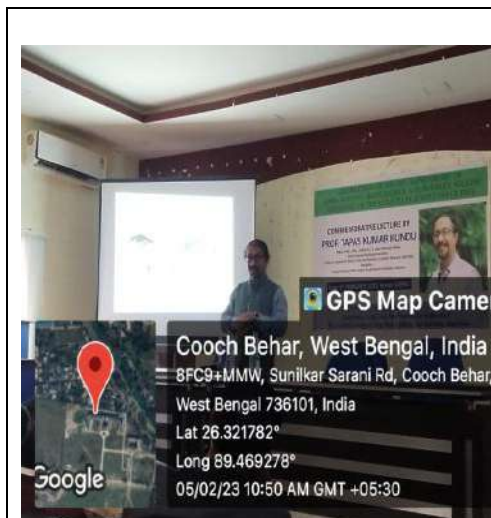
Dr. Pradip Kumar Kar, Professor and Head, Department of Zoology, Cooch Behar Panchanan Barma University (CBPBU) has delivered the welcome address to all present in the lecture.

Dr. Tapas Kumar Kundu, eminent scientist of the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore has delivered a lecture on the occasion on epigenetics at 10.30 A. M. on 05. 02. 2023 (Sunday) in the seminar hall of CBPBU followed by an interactive session where students, scholars and teachers have taken part.

Dr. Nilay Ray (WBSSES), Principal, Acharya Brojendra Nath Seal College has spoken a few words about epigenetical disorders.

Faculty members of both the departments were present in the lecture.

Dr. Kar has ended the lecture with vote of thanks at 1.00 P. M.



**Dr. Tapas Kumar Kundu is delivering lecture.**



**Dr. Nilay Ray is addressing the audience.**



**The audience are imbibing Dr. Kundu's lecture.**

## **Department of Zoology**

### **Report on Alumni Interaction-cum-Motivational Talk**

**Conducted by**

**Dr. Sanjib Ray, Professor, Department of Zoology, The University of Burdwan, West Bengal**

Alumni interaction programme begun at 2.00 P.M. on 30. 03. 2023

Felicitations of alumni were done by the departmental teachers.

Welcome address was given by Sri Hemen Biswas, Head of the Post Graduate Department of Zoology and he talked about the importance of alumni interaction.

Dr. Sanjib Ray, Professor, The University of Burdwan, West Bengal, discussed about career building, coping and opportunities in Life Sciences in general and in Zoology in particular. He recalled his days as a Zoology Honours student in this Department from 1992-1995. He talked about the skills and methods to develop the scientific temperament of the present day students. He discussed about the trends of changes in education, research and job in the last few decades.

He also highlighted about the crystallization and galvanization of mind set of the youngsters in building their career and how that will make them responsible and successful citizens.

The participating students were really enriched and encouraged and they put forward a handful of relevant questions to the alumnus. Hopefully they became happy enough after getting the answers from the alumnus-speaker.

The talk was ended at 4.00 P. M.



## Department of Zoology

### Report on Har Gobind Khorana Memorial Lecture Series, 2023

**Title: Ecology is a Permanent Economy; The Soul of Sustainable Development**

**by**

**Dr. Narayan Ghorai, Professor, Department of Zoology, West Bengal State University, Barasat, West Bengal**

Registration begun at 2.30 P.M. on 04. 04. 2023. Programme was inaugurated by lighting of the lamp.

Felicitation of guests was done by the departmental teachers. Welcome address was given by Sri Hemen Biswas, Head of the Post Graduate Department of Zoology and he talked about the importance of Ecosystem and its sustainability.

Dr. Nilay Ray, Principal A. B. N. Seal College discussed about the need and role of sustainable development. Dr. Narayan Ghorai, Professor, Department of Zoology, West Bengal State University, Barasat, West Bengal, discussed about the sustainable development, how we can fulfil our needs of current generation without compromising the needs of future generations and how we use our natural resources. He talked about the various environmental movements across India and the world. He discussed about the 4 types of ecosystem services like provisioning services, regulating services, cultural services and supporting services of ecosystem. He talked about how our culture and natures are interlinked.

He also highlighted about the natural and physical capital of the environment and to emphasize on the utilization of natural resources by exemplifying several case studies.

After the wonderful audio-visual lecture, the programme was ended with vote of thanks given by Dr. Debojyoti Dutta, Associate Professor, Post Graduate Department of Zoology, A. B. N. Seal College.

		
<p>Dr. Nilay Ray, Principal is felicitating Dr. Narayan Ghorai, honourable speaker.</p>	<p>Dr. Narayan Ghorai is delivering his lecture on ecology, economy and sustainable development.</p>	<p>The speaker, Principal, teachers and students are in a frame at the end of the lecture.</p>