

DEPARTMENT OF BOTANY

REPORT ON

AJC Bose Memorial Lecture 2022 on "Think Outside the Box. Be an Entrepreneur!"

On 9th June 2022 Department of Botany, ABN Seal College had arranged AJC Bose Memorial Lecture on "Think Outside the Box. Be an Entrepreneur!" The Speaker of this lecture was Prof. Krishnendu Acharya, Department of Botany, University of Calcutta. The lecture was arranged in online platform via Google meet from 11 AM to 1.30 PM. Total 90 participants had joined this online lecture given by Prof. Acharya. The main focus of arranging this kind of memorial lecture is to distribute awareness among the students, their understanding about how can we use our knowledge in practical aspect i.e. to use their knowledge to utilize their everyday waste product (which we say so but actually not) into creating purposes. The students' interaction with the eminent speakers, their queries in multiple directions, their eagerness to know outside of their knowledge etc. In this memorial lecture Prof. Acharya was speaking about how do we create our own instruments with our everyday use products with a minimum costs than the costs we bought them from the market. Moreover he also told about components of organic farming along with his own innovative. The useful aspects of farming and to make the farmers aware about their components which they bought from the market at very high costs. He also mentioned about cheaper and effective biofertilizers and green manuring which farmers can use for their crops and which was also safe and very effective for their productions. The students were much enriched with his enormous knowledge and also they gained a lot from this lecture. Some students were very touched with this knowledge that they told Prof. Acharya that they are willing to take this part of lecture as their future project. Brief details of the eminent speaker and nature of participants are given below:

Name of the Speaker	Designation & Affiliation
Prof. (Dr.) Krishnendu Acharya	Professor in Botany, Molecular & Applied Mycology & Plant Pathology Laboratory, Centre of Advanced Study, Department of Botany, University of Calcutta, Kolkata- 700019, India

Nature of participants	In house	External	Total Nos. of Participants
No. of teacher participants	11	Nil	11
No. of student participants	45	34	79

Some relevant photographs with respect to the Memorial Lecture are attached below:

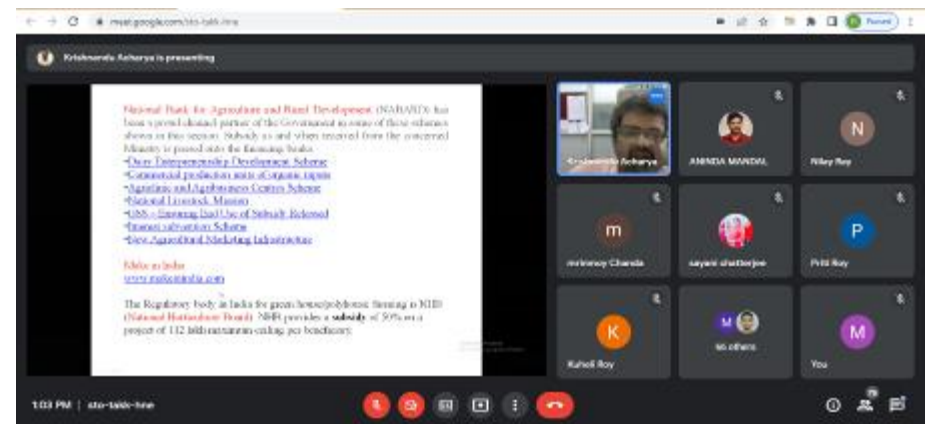
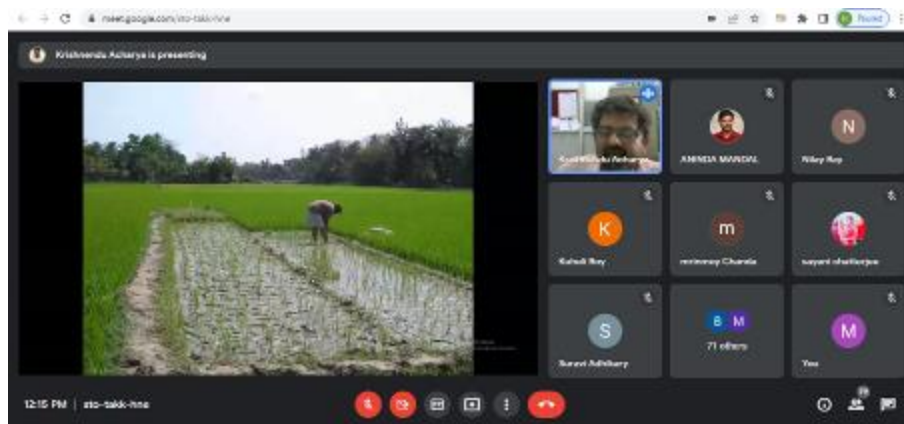
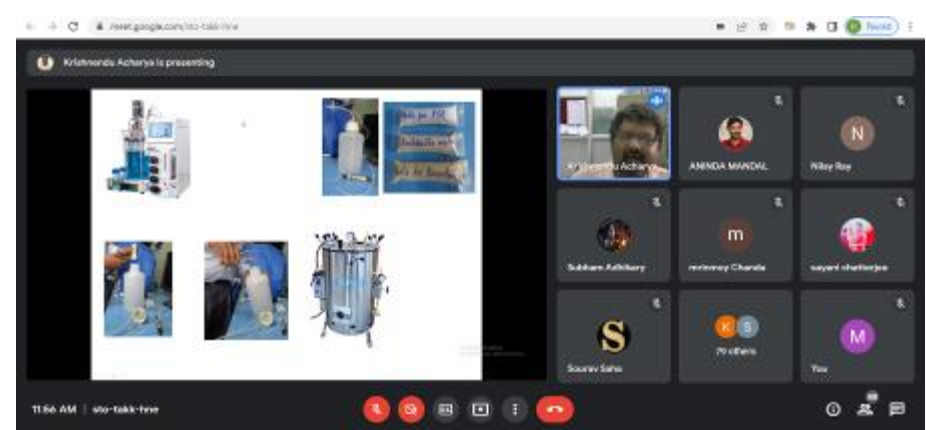
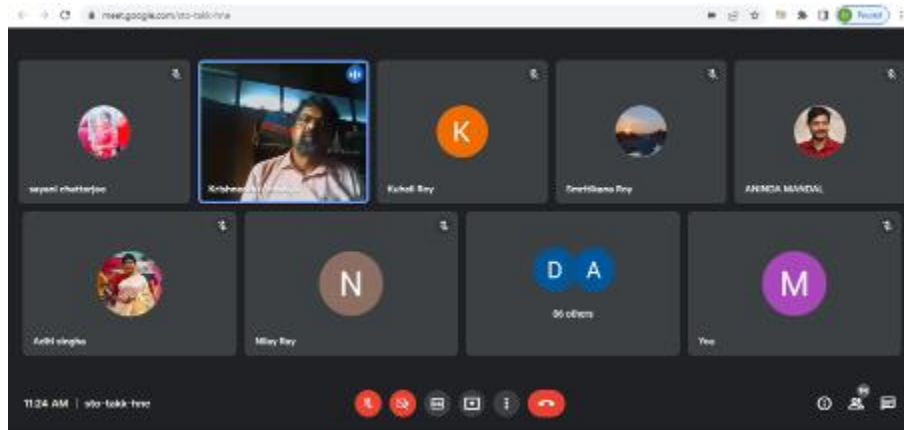


Figure: Snapshot with respect to AJC BOSE Memorial Lecture 2021-2022

REPORT ON Students' Seminar 2021-2022

Students' seminar was successfully held in the session of 2021-2022. The seminars were held in 8 different days (04.12.2021, 07.12.2021, 08.12.2021, 10.12.2021, 11.12.2021, 14.12.2021, 15.12.2021, 18.12.2021) without hampering the regular classes. Total 29 students delivered their lecture on different topics. Among them 19 was from Semester VI and 10 from Semester IV. All the students gave their power point presentation with their stipulated time which was 10 mins (for their presentation) and 5 mins (for discussion). All the students presented very nicely and shared their novel ideas. The students were able to convince the audience participants. All of them actively participated in this seminar. The teachers from different department also came to see how students were performing. All the students enjoyed a lot and gained a lot of knowledge from their seminar presentation on different topics.

Some relevant photographs with respect to the Students' Seminar are attached below:



Figure: Photographs with respect to Students' Seminar 2021-2022.

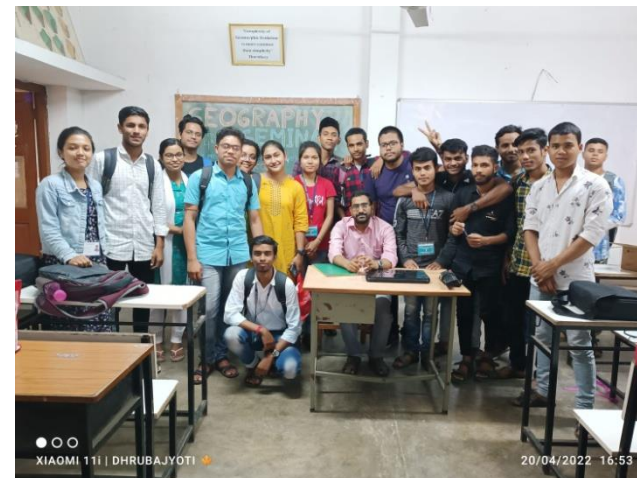
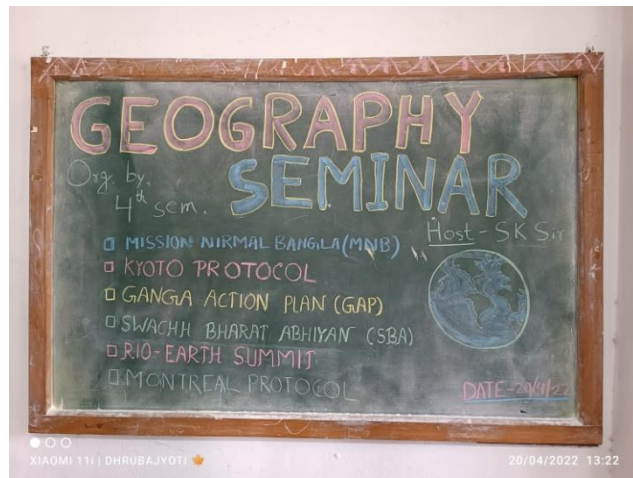
DEPARTMENT OF GEOGRAPHY

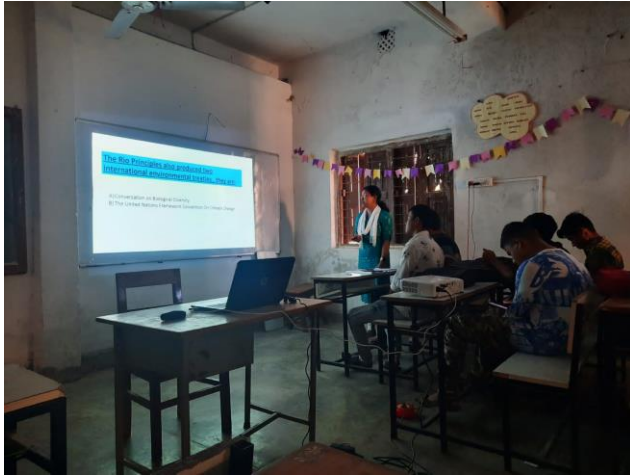
1. Report on Students' Seminar (Semester 4):

A Students' Seminar was organized for 4th Semester Students on 20.04.2022 wherein 22 students presented their academic overviews. As a partial fulfillment of the Internal Assessment (Continuous Evaluation) pertaining to Economic and Environmental Geography (Core Paper 9), this seminar was organized. Mr. Sahidul Karim, Assistant Professor, Department of Geography, has guided the students for seminar presentation. Each student was given a topic for power point presentation and was allowed to speak on their topic for 10 minutes duration. After the presentation, 5 minutes time was allotted for open house interaction and discussion. Sri Partha Das, Assistant Professor, Department of Geography, was also present there as an internal expert.

This process not only helped the learners to build in depth knowledge on the topic but also to have an exposure of research based learning. This Seminar was of grand success and it has created enormous enthusiasm amongst the young practitioners of Geography.

Some photographs of the Students' Seminar:





**Participants of the Students' Seminar (Semester 4)
Department of Geography**

ROLL NO.	NAME	ROLL NO.	NAME
M-01	Roshan Mahato	M-33	Ranik Barman
M-09	Sun Sarkar	M-35	Subham Ghosh
M-13	Sourav Adhikary	M-38	Dhrubajyoti Ray
M-14	Ripan Das	M-41	Ananda Barman
M-16	Bishal Sarkar	F-02	Deepshikha Karjee
M-22	Asraful Hassan	F-04	Punam Lama
M-24	Sourav Barman	F-05	Urmi Ray
M-26	Anut Kumar Roy	F-23	Bipasha Das
M-28	Subhajit Sarkar	F-36	Triparna Basak
M-29	Prithwiraj Dutta	F-37	Afsana Sarkar
M-30	Sukumar Barman	F-39	Arupa Basak
M-32	Koushik Roy		

2. **A Report on Seminar on “Application of RS & GIS in Academic Research”:** A Seminar was organized by the Department of Geography on the said topic on 22.02.2022 in collaboration with the IQAC, A.B.N. Seal College. The Speaker, Dr. Shraban Sarkar, Assistant Professor, Department of Geography, Cooch Behar Panchanan Barma University lucidly explained the topic from different viewpoints. Remote Sensing is of utmost importance to our discipline as well as to our daily lives in a broader sense. Dr. Sarkar discussed vividly the importance of Remote Sensing and usage of the resultant data to satisfy our daily necessities along with some important issues like science and technological innovations, defense and security of a nation etc. About 67 students attended the seminar. The students got a nice exposure with this exercise.

Flyer of the Seminar

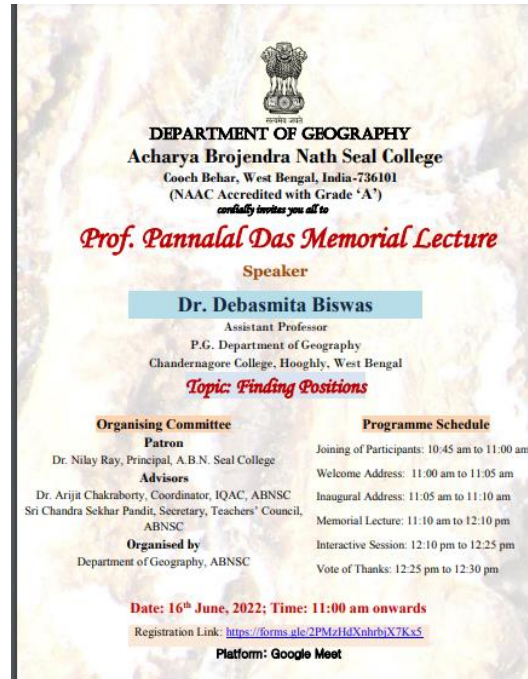
ONE DAY SEMINAR ON:
APPLICATION OF RS & GIS IN ACADEMIC RESEARCH


- **Date:** 22.02.2022
- **Venue:** Vidyasagar Sabhagriha
- **Time:** 11:00 a.m. – 1:00 pm
- **Speaker:**
Dr. Shraban Sarkar,
Assistant Professor,
Cooch Behar Panchanan Barma University
- **Organized by:**
Department of Geography in collaboration with IQAC,
A. B. N. Seal College, Cooch Behar,
West Bengal, 736101

Registration Link:
https://docs.google.com/forms/d/e/1FAIpQLSeTDhHoVAMAevYTF2296A35oC6QGxoHK1wK1CxyaPF1NKfsrg/viewform?usp=pp_url

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graph TD; TM[topographic maps] --> OI[original image]; CI[crop calendar] --> OI; OI --> P[preprocessing]; P --> IIV[image interpretation and vectorization]; GT[ground truth] --> IIV; IIV --> LCCS[LCCS]; IIV --> AB[administrative boundaries]; LCCS --> GIS[GIS database]; AB --> GIS; GIS --> LCM[land cover maps];
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3. Professor Pannalal Das Memorial Lecture: Dr. Debasmita Biswas, Assistant Professor, P.G.Department of Chandernagore Govt. College, Hooghly, West Bengal was invited to speak on “Finding Positions” – a topic related to the functioning of GPS system, its usage in our daily life and living. The memorial lecture was organized on online platform on 16.06.2022. The insightful content of the lecture created interest among the students as they were able to relate themselves. About 66 students participated in this lecture.




DEPARTMENT OF GEOGRAPHY
Acharya Brojendra Nath Seal College
Cooch Behar, West Bengal, India-736101
(NAAC Accredited with Grade 'A')
cordially invites you all to

Prof. Pannalal Das Memorial Lecture

Speaker

Dr. Debasmita Biswas
Assistant Professor
P.G. Department of Geography
Chandernagore College, Hooghly, West Bengal

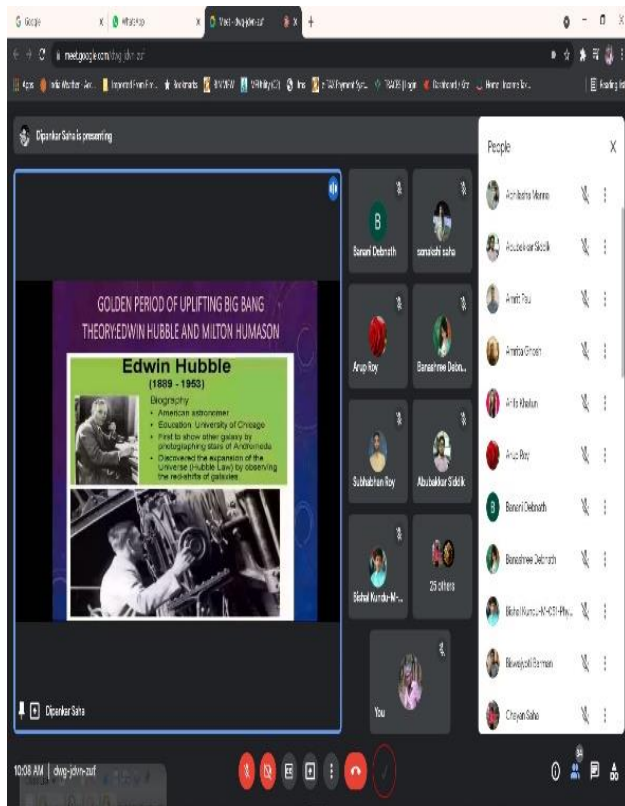
Topic: Finding Positions

Organising Committee	Programme Schedule
Patron Dr. Nilay Ray, Principal, A.B.N. Seal College	Joining of Participants: 10:45 am to 11:00 am
Advisors Dr. Arijit Chakraborty, Coordinator, IQAC, ABNSC Sri Chandra Sekhar Pandit, Secretary, Teachers' Council, ABNSC	Welcome Address: 11:00 am to 11:05 am Inaugural Address: 11:05 am to 11:10 am Memorial Lecture: 11:10 am to 12:10 pm
Organised by Department of Geography, ABNSC	Interactive Session: 12:10 pm to 12:25 pm Vote of Thanks: 12:25 pm to 12:30 pm

Date: 16th June, 2022; Time: 11:00 am onwards
Registration Link: <https://forms.gle/2PMzHdXnhbiX7Kx5>
Platform: Google Meet

Session 2021-2022, Department of Physics

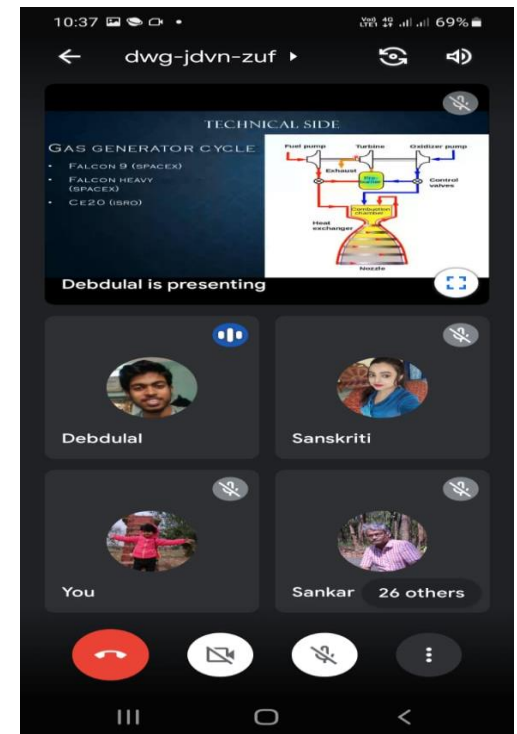
A student Seminar was organised by the Department during 5/7/2021-6/7/2021. A total of 14 students given their lectures on various topic in the seminar. The lectures was followed by a question answer session. A total of 38 students and all the six faculty members of the department along with some few faculty members of other department took part in the seminar.



Student Seminar
Dept of Physics
A B N Seal College Cooch Behar
Date: 05/07/2021 and 06/07/2021
Time: 09:45 AM onwards

05/07/2021(Day-1)

- 09:45 AM: Joining of Participants
09:55 AM: Inaugural speech by Head of the Department Dr. Sankar Mandal
- 1 10:00-10:15 AM: Dipankar Saha (6th sem): *History of Big Bang and Journey to the scientific origin*
 - 2 10:15-10:30 AM: Banani Debnath (4th Sem): *Cosmic Microwave Background*
 - 3 10:30-10:45 AM: Subhabhan Roy (6th Sem): *Gravitational Waves, History Detection and its future*
 - 4 10:45-11:00 AM: Amrit Paul (4th sem): *Antigravity*
 - 5 11:00-11:15 AM: Amrita Ghosh (6th Sem) : *God's eyes and The hungry Galaxy*
 - 6 11:15-11:30 AM: Sonakshi Saha (6th Sem): *Venus: Toxic Twin*
 - 7 11:30-11:45 AM: Banasree Debnath (6th Sem): *Uranus and Neptune : The twin ice giants*
 - 8 11:45-12:00 PM: Tamal Dutta (6th Sem): *Mechanism of Nucleo-Synthesis & it's relation with atmosphere.*
- 12:00 PM-onwards: Concluding Remarks for Day 1 by Suchismita Maiti



An online seminar namely ‘Aryabhata Memorial Lecture, 2022’ was arranged by the Department on 14/6/2022 at 4PM. Prof. Gobinda Majumder, TIFR, Mumbai delivered a lecture on ‘Introduction to Particle Physics: From Atoms to Quarks’. 55 students and faculty members of the Department attended the seminar. Prof. Majumder being an alumnus from our Department discussed also on the scope of further study after the completion of UG course.

ACHARYA BROJENDRA NATH SEAL COLLEGE
DEPARTMENT OF PHYSICS
 Aryabhata Memorial lecture 2022

**INTRODUCTION TO PARTICLE PHYSICS:
 FROM ATOMS TO QUARKS**

Invited speaker
 Prof. Gobinda Majumder,
 Tata Institute of Fundamental Research
 Mumbai

Time and Date
 4 PM 14th June

Platform & Link
 Google Meet
[Click Here](https://meet.google.com/pva-yokb-ska)

Patron: Dr. Nilay Ray
 Principal A.B.N. SEAL COLLEGE

Advisors
 Dr. Arijit Chakraborty
 Coordinator IQAC

Convener
 Dr. Sankar Mandal
 HOD, Department of Physics

**All Students & Faculty
 Members are Cordially
 Invited to Join the Program**

$$E=mc^2$$

$$\nabla^2 \psi + \frac{2m}{\hbar^2}(E - V)\psi = 0$$

6/14/22, 4:39 PM Meet - Aryabhata Memorial Lecture 2022, A.B.N. Seal College, Cooch Behar

Gobinda Majumder is presenting

First (wrong) ideas about nuclear structure : before 1932

Observations

- Mass values of light nuclei = multiples of proton mass (to few %) (proton = nucleus of the hydrogen atom)
- β decay: spontaneous emission of electrons by some radioactive nuclei

Hypothesis :

- The atomic nucleus is a system of protons and electrons strongly bound together
- Nucleus of the atom with atomic number Z and mass number A : a bound system of A protons and (A - Z) electrons
- Total electric charge of the nucleus = [A - (A - Z)]e = Z e

Electron, proton spin = $\frac{1}{2}\hbar$ (measured)
 Nitrogen nucleus (A = 14, Z = 7): 14 protons + 7 electrons = 21 spin $\frac{1}{2}$ particles
Total Spin Must Have Half-Integer Value, But Measured Spin = 1

65 others

People

- Subham Roy Kung...
- Sampita Mondal
- Sanskriti Chanda
- Sharmista Gosw...
- Shubhankar Barm...
- Shubhodeep Bank
- SREEJEEETAA SEH...
- Subhdeep Tarat...
- Subham Roy Kung...
- SUBHOM GHOSH
- Suchismita Maiti
- Sudip Saha
- Sujit Das
- TANIYA ROY

4:39 PM | Aryabhata Memorial Lectur...

<https://meet.google.com/pva-yokb-ska>

A students sensitization program was organised in the department. Two ex-students of the department, Dr. Subhadip Chakraborty, Post Doctoral Fellow, SN Bose Centre for Basic Science, Kolkata & Subhrangsu Dhar, PhD Scholar, Technical University Wein Vienna, Austria gave some guidance and motivation talk to the students on how to proceed for their future study.



DEPARTMENT OF PHILOSOPHY

BRIEF REPORT OF THE ACADEMIC PROGRAMMES ORGANISED BY THE DEPARTMENT OF PHILOSOPHY IN JULY 2021- JUNE 2022

1.E-LECTURE (ONLINE MEMORIAL LECTURE)

Department of Philosophy organised an online memorial lecture on 8th June,2022 from 11.30am. The deliberation was on “ The Concept of dharma in Indian Ethics; its Impact on Social and Moral Life.:" Dr. Gargi Goswami, Associate Professor, Department of Philosophy, Jadavpur University discussed on the same. She elaborately explained the concept of dharma, its historical development in Indian history of Religion and Ethics. Then she discussed the significance of dharma in social and moral development of Indian life with special reference to Buddhism.All the participants were highly enlightened by her deliberation. 65 students and 5 faculty members attended and six from the students asked very relevant questions on the concept and development of dharma. Total duration of the deliberation was 3 hours. No photos are available due to the online mode of presentation.

2. Students Seminar

A) An online students seminar was held on 12/8/2021 on “Ethical Values in Buddhism” from 11am..Avijit Das and Sandip Biswas from 5th semester (Hons.) presented their views on different moral aspects of Buddhist philosophy. Avijit Das dealt with astangik marga or eight-fold path and how they lead to nirvana. Sandip Biswas discussed on four noble truths, development of Buddhism from Hinayana to Mahayana, and how Buddhist ethics deeply influenced the Indian society.80 students and 5 teachers participated in the seminar. In the question-answer session 4 students asked some relevant questions. Total duration of the seminar was 2 hours.

B) Department of Philosophy arranged an online student seminar on 11/01/2022 from 12 noon. The topic of the seminar was “Women Empowerment and Some Issues”. Ria Datta and Dipa Saha from 5th semester Hons. presented their concepts on women empowerment. Ria Datta discussed the development of feminist movement and how the feminist philosophers highlighted the significance of the empowerment of the women. The basic philosophical issues were reflected in her presentation. Dipa Saha mainly discussed on the present scenario of women empowerment, real challenges it faces all over the world with special reference to the Indian society. 75 students and 5 teachers attended the seminar. A very interesting question-answer session was there with lots of very relevant questions from the participants. Total discussion was of 2.30 hours.

4. MOTIVATIONAL SPEECH FOR THE STUDENTS

Department of Philosophy organised a motivational speech for the students on 17th November, 2021 from 11am. Prof. Baishali Majumder, Assistant Professor, Department of Philosophy, Coochbehar Panchanan Barma University shared her views with the students. Dr. Majumder emphasised on the moral elements in education system with special reference to Swami Vivekananda and Rabindranath Tagore. She explained the philosophy of education as

conceived by Swamiji and Rabindranath. In the context of present education system she encouraged our students with some pragmatic advice. Students were really motivated by her suggestions regarding their future course of studies and various professional courses. Total no. Of participants was 50 and the duration was 2 hours. A question-answer session followed her presentation with relevant queries from the students.

