

Annual Report of Science Society ‘Vigyaan Sanjivani’ 2020

BEIEd Teacher In-Charge: Dr Ritu Chowdhary

Science Society Dr Manisha Wadhwa (Convenor)

Dr Indu Nashier (Co-Convenor)

Dr Priya Khurana (Member)

Dr Bhupinder Singh (Member)

Science Society and Department of Education organised 4 days Seminar cum workshop for BEIEd students from Jan 7 to Jan 10, 2020 on the Theme – Women, Science and Teacher Education. The Programme began with a Keynote address on the theme by Prof Anita Rampal (Former Head and Dean, Faculty of Education, University of Delhi, Delhi). She highlighted the role of women scientists in contribution towards scientific knowledge and research by using examples of Marie Curie and Rosalind Franklin. In her address she drew examples from indigenous knowledge by mentioning that scientific knowledge is not limited to institutes. It is there in our daily life practices by using how traditional knowledge of cure of chicken pox was there even before Edward Jenner discovered it.

The panel discussion with panellist Prof Gurjeet Kaur (Jamia Millia Islamia) and Dr Kalyani Akalamkam (Lady Shri Ram College for Women, University of Delhi) was organised on Jan 8th, 2020. Both panellists build the perspectives on why there are fewer women scientists and how women find science alienated. They shared data and examples of women discrimination in Higher Education in Science. Further, they discussed how teachers and pre-service teachers bring change in their pedagogic strategies to bridge the gap between science and women. On that day another special lecture of Prof Vandana Saxena (Department of Education, CIE, University of Delhi, Delhi) was organised. Her talk focussed on gender representations in textbooks and pedagogy-based research evidence to bring gender equity in Science Education.

Ms Nisha Sharma, (an Alumna of the college) TGT Science with Directorate of Education, Delhi conducted a Lecture cum Demonstration with students on Jan 9th, 2020. She demonstrated classroom activities for number of scientific concepts like acid – base indicators, magnets and magnetic lines of forces, light – reflection and refraction.

Three workshops on the topics from Physics (Static Charge, Current flow and Electricity), Chemistry (Matter – Solid, liquid and Gas; Electrolysis and electricity conduction in salts) and Biology (Digestion, Nutrition and Respiration) were organised on 7, 9 and 10th Jan, 2020. The resource persons for the workshops were Ms Anshumala Gupta, Mr Vikas Saini and Mr Hitesh Khatwani from the Joy of Learning Foundation. During these workshops’ students had hands on experience of number of activities in science.

In the event poster making competition and quiz competition on the theme of the seminar were organised by the student body of Science Society (Ms Ojsvi, Ms Muskaan and Ms Priya from BEIEd IVth year). For the Poster Making Competition students were given an hour to make poster on A3 size paper. The winners of the competition were:

Ist Prize: Unnati Rana (BEIEd IVth Year)

IInd Prize: Pranjal Priya (BEIEd Ist Year), Kajal (BEIEd Ist Year)

IIIrd Prize: Harshita (BEIEd Ist Year), Aakriti Gupta (BEIEd IIIrd Year)

Quiz Competition was organised in three rounds. The winners of the competition were:

Ist Prize: Pallavi (BEIEd Ist Year)

IInd Prize: Jyoti (BEIEd IVth Year)

IIIrd Prize: Priyanka (BEIEd Ist Year)

Dr Subhash Chander from Department of Education (CIE), University of Delhi, Delhi delivered the valedictory address for the seminar. He raised few concerns for pre-service teachers (BEIEd Students) like removing 'fear of science' and encouraging the skill of 'asking questions' among children at the primary and elementary school level. He appreciated the efforts of students and teachers of the department for organising the mega event on the theme.

Vigyan Sanjeevani Science Society

Report 2020- 2021

Team: Dr Manisha Wadhwa, Dr Indu Nashier,

Dr Bhupender Singh, Dr Priya Khurana

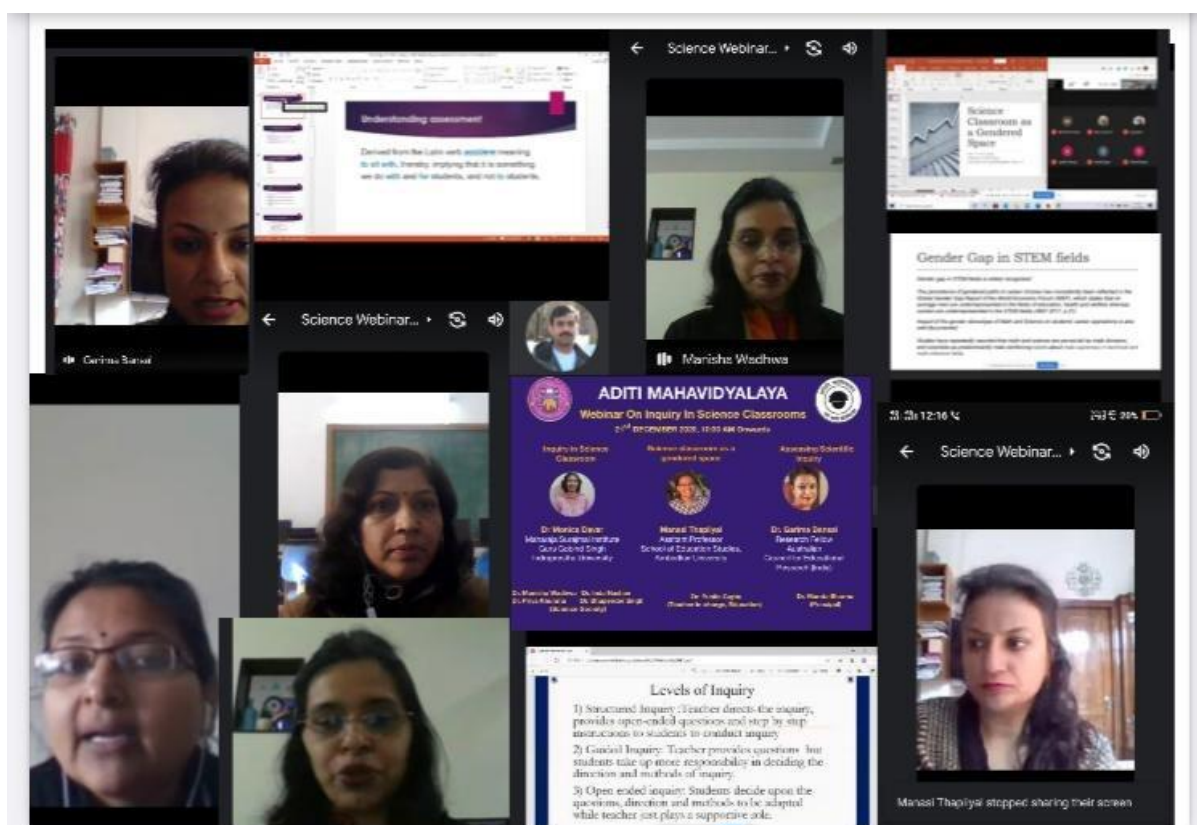
E Newsletter released on 10 April, 2021 during VC and his team's visit to the college

Celebration of Annual Science Week 21 – 23 Dec, 2020

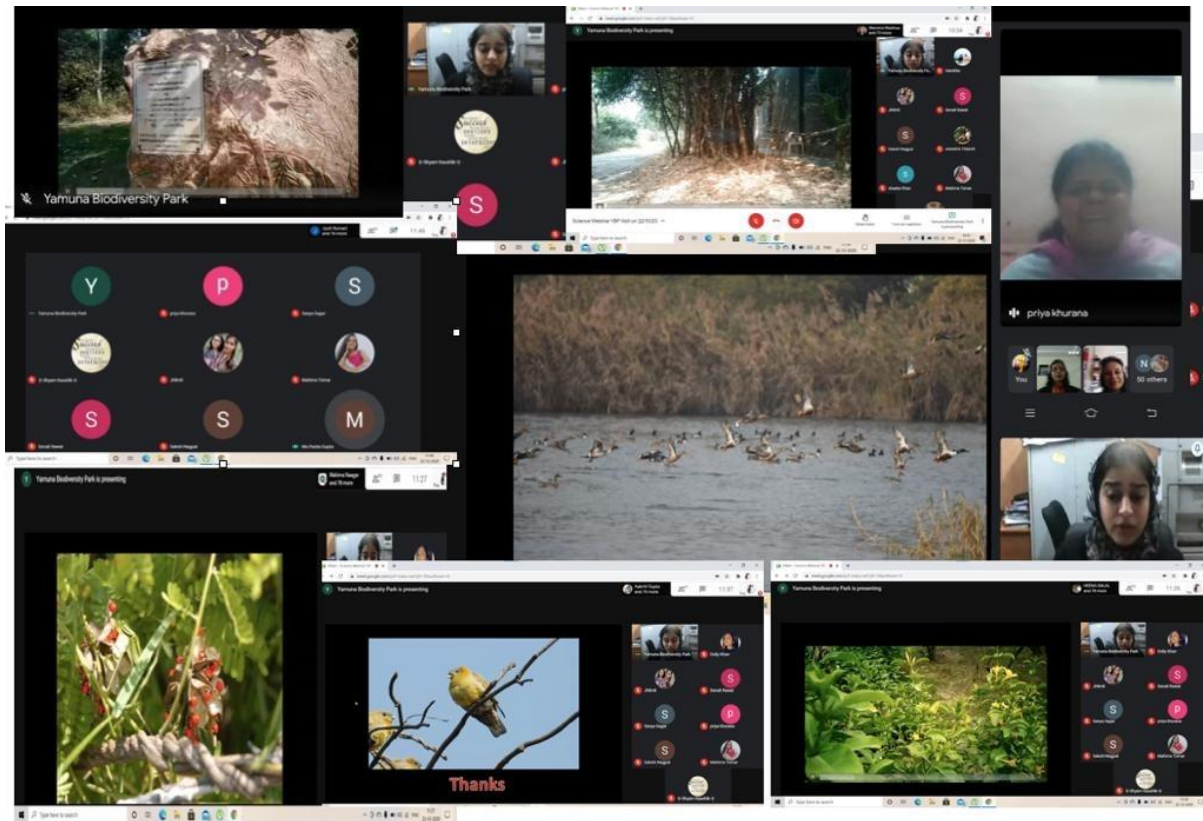
Science society organized three days online events for students on the theme “**Inquiry in Science Classrooms**” from 21 Dec, 2020 to 23 Dec, 2020. The inaugural session motivated students by a **talk and interaction with experts from the field**. The experts were:

- Dr Monica Davar, Maharaja Surjal mal Institue , Guru Goving singh Indrapratha University
- Dr Manasi Thapiyal, School of Education Studies, Ambedkar university
- Garima Bansal, Research Fellow, Australian Council for Educational Research India

It was followed by online quiz for students using platform of Kahoot.



On 22 Dec, 2020 a **virtual visit to the Yamuna biodiversity park** was organized. The resource persons Dr Faiyaz Ahmad Khudsar, Scientists In charge of the Park and Ms Preeti Vohra, Nature Education officer took has through the park using pictures, videos and presentation. It seemed as if we were actually in the park walking through it trails. After that our students had lot of questions on elephant apple, box bug, butterflies, adaptability of moth and diversity in the park and role of park in conserving biodiversity. We learnt that conservation of biodiversity is important for keeping alive the complex food chains and food web.

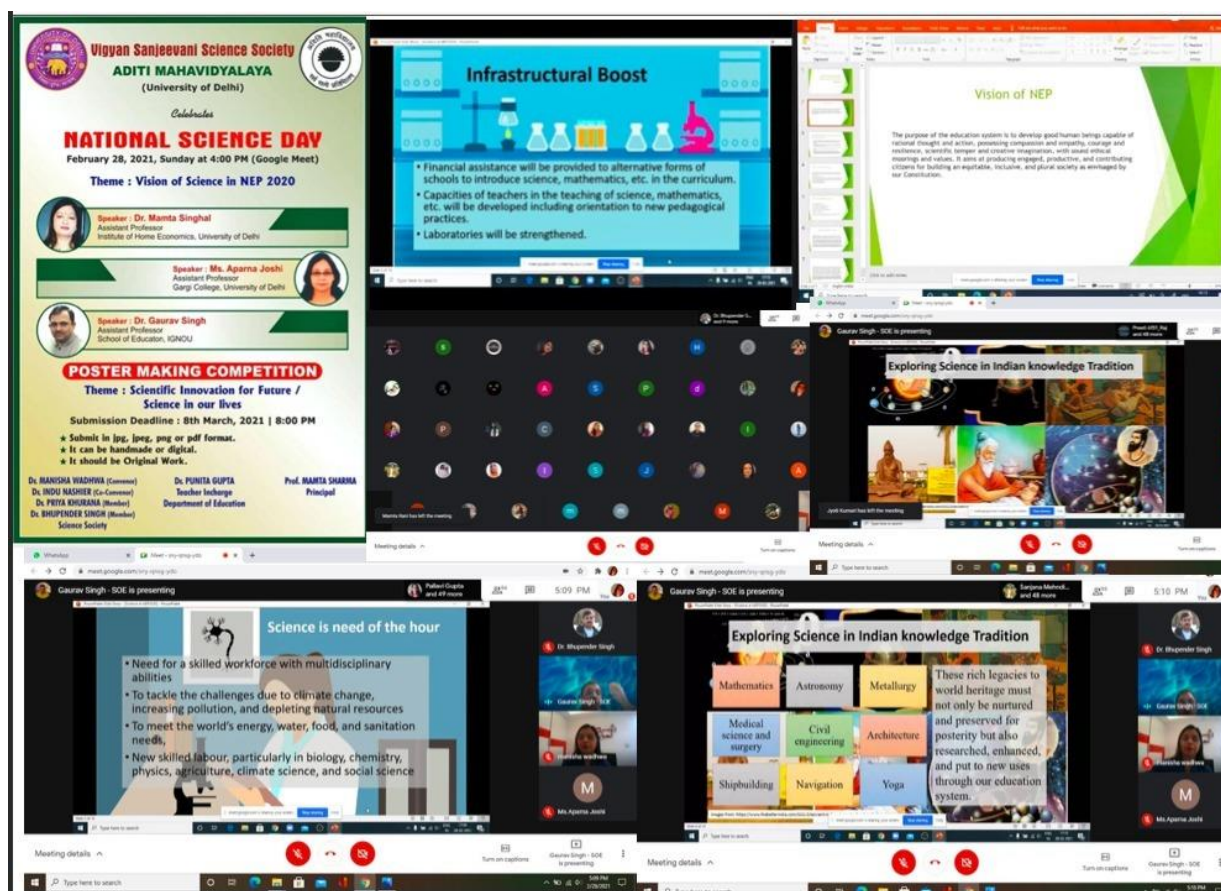


On 23 Dec, 2020 **online session of Hands-on activities** was organized by Ms Anshumala and her team from Joy of learning Foundation. The session was informative, practical and engaging on flowers in our surroundings and their reproduction. The workshop encouraged students to think critically about questions like how do we differentiate flowers from leaves? Do all flowers possess fragrance? Why do plants make flowers? What is the ultimate purpose of flowering?

Celebration of the National Science Day on Feb 28, 2021

Science society celebrated the **National Science day on Feb 28, 2021** by organizing a webinar for students on the topic “Vision of Science in NEP 2020”. The resource persons of the events were Dr Mamta Singhal, Institute of Home Economics, University of Delhi, Ms Aparna Joshi, Gargi College, University of Delhi and Dr Gaurav Singh, School of Education, IGNOU. The

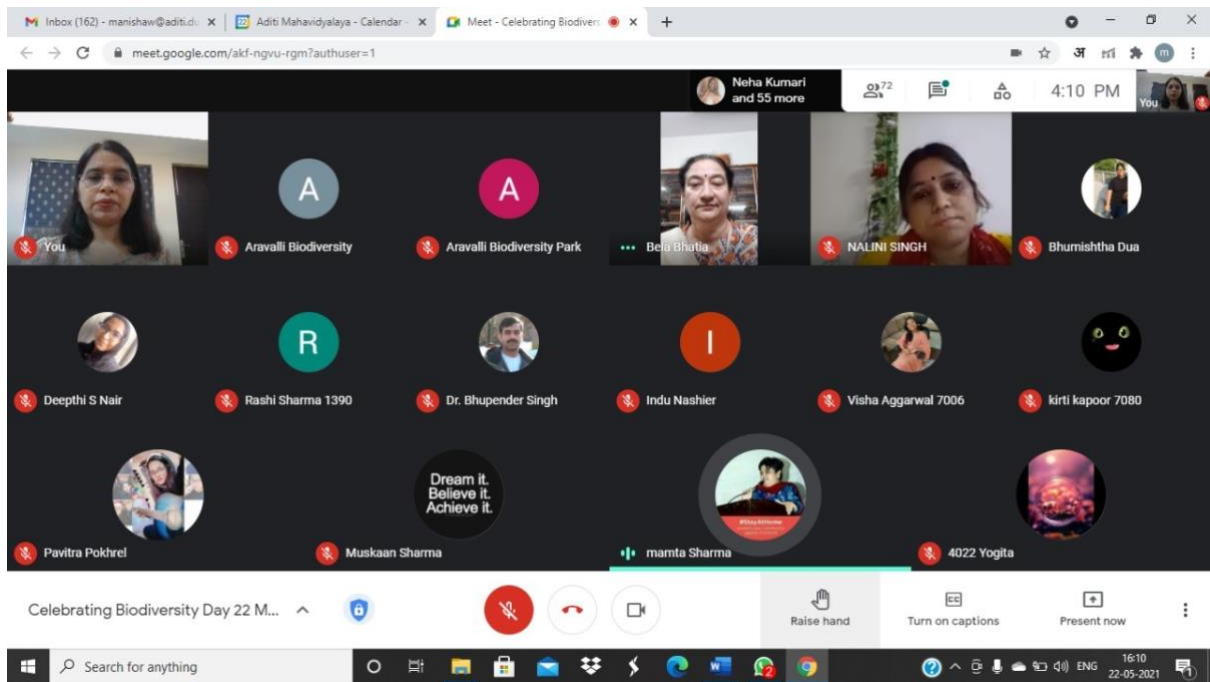
webinar drew attention of students towards the key points of science in the National Educational Policy 2020.



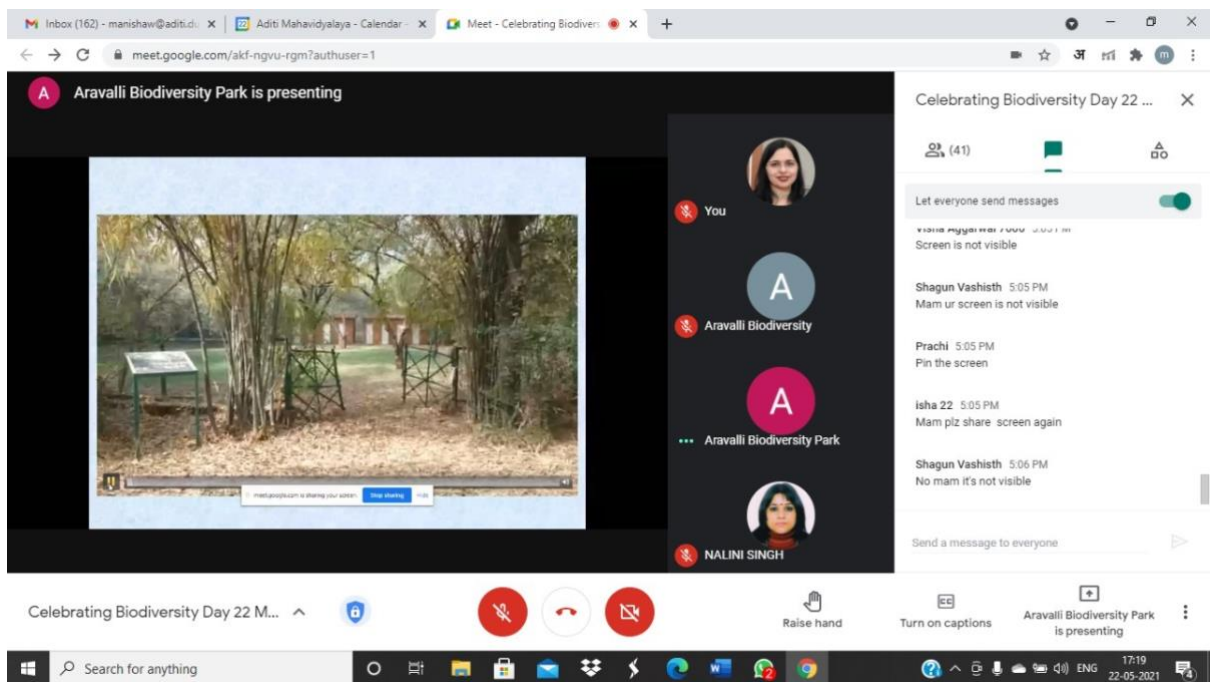
Celebration of International Day for Biological Diversity on 22 May, 2021

An online event (webinar) was organized on the occasion of the International Day for Biological Diversity for bringing awareness among students of Aditi Mahavidyalaya. More than 80 students and about 15 teachers from different departments of the college and the principal, Aditi Mahavidyalaya attended the session.

For this a talk was conducted by Dr Bela Bhatia, Associate professor in the department of Botany, Deshbandhu College, University of Delhi. She discussed the concepts of Biodiversity – its benefits, hotspots and conservation. She also raised the concerns about factors like pollution, global warming, responsible for loss of biodiversity. She simplified this technical discussion by taking simple examples of the peepal tree, neem, kadam and Indian cherry and these contribute to the web of life. Dr Bela finally concluded her talk by explaining how we individuals can contribute towards conservation of biological diversity.

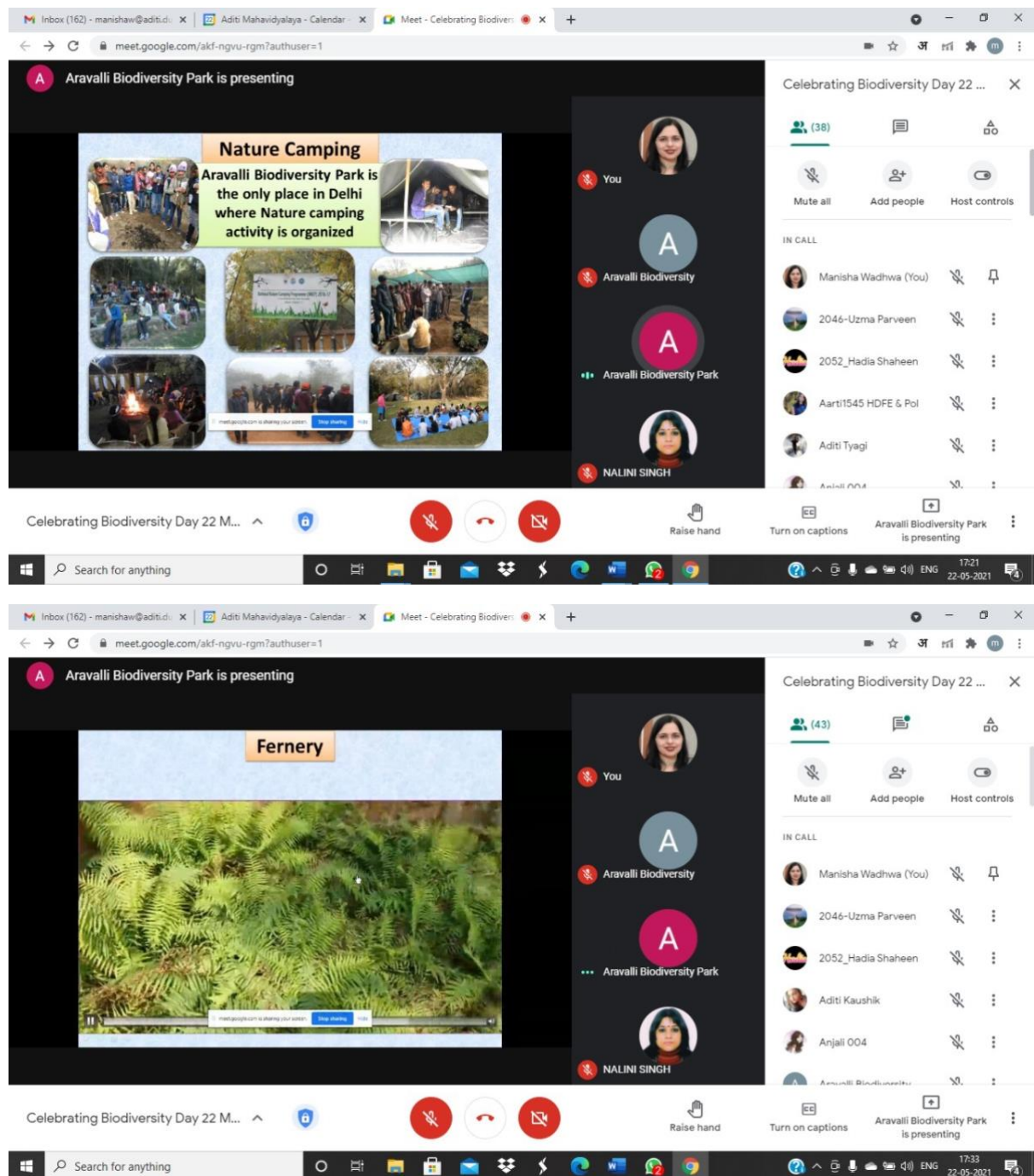


It was followed by discussion and Virtual walk to the Aravalli Biodiversity park by Dr M Shah Hussain (Scientist In charge, Aravalli biodiversity Park) and Ms Balwinder Kaur (Nature Education Officer, Aravalli Biodiversity Park). Dr Hussain explained how celebration of special day like today brings awareness to masses. He further elaborated that Biodiversity parks are action models based on research which significantly contribute to biodiversity restoration. The virtual walk was amazing. It seems that we were actually in the park.



The resource persons took us to all trails of the park – including rose conservatory, succulent species conservatory, sterculia dominated forest, medicinal plants conservatory, butterfly

conservatory, corridor forest, orchid conservatory, fern conservatory and many others. It shared many interesting videos about porcupine, peacocks, snakes, kingfishers, jackals, painted grasshopper, house sparrows and many other insects and birds.



The video on life cycle of butterfly was amazing which shows how larva was turned into a caterpillar and how pupa is formed. No words are enough to describe the metamorphosis of pupa into a beautiful butterfly. The virtual visit ended with an interesting and amazing film on the Aravalli Biodiversity park which has captured very unique moments and details about various species of plants, animals, birds and insects in the biodiversity park.

A few questions on individual contribution towards biodiversity conservation and signs on biodiversity restoration were also discussed. The virtual tour was a treat to students and a must visit place. It was appreciated by one and all.

VIGYAN SANJEEVINI SCIENCE SOCIETY



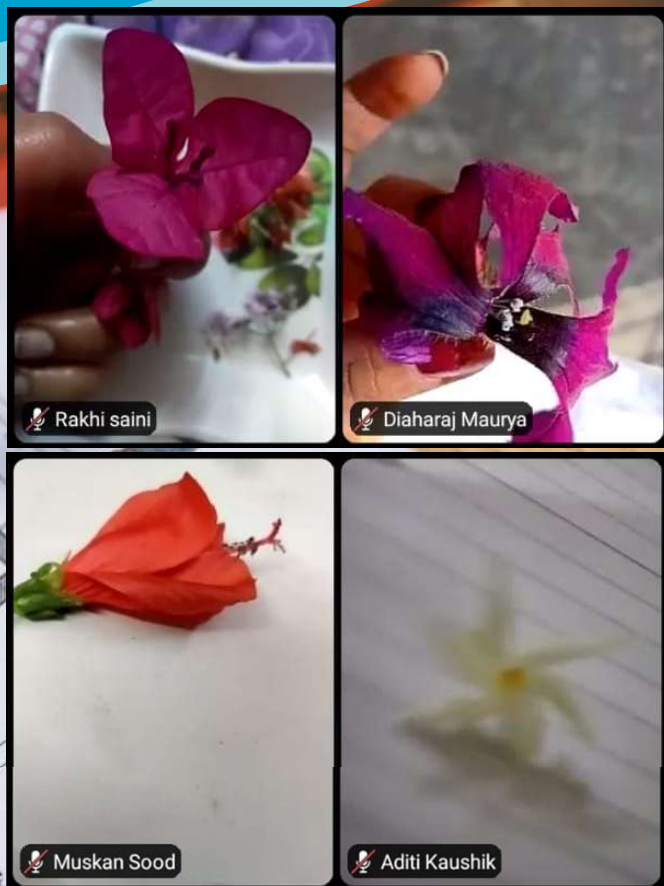
Newsletter 2020-21

ADITI MAHAVIDYALAYA UNIVERSITY OF DELHI

The Vigyan Sanjeevini विज्ञान संजीवनी Science Society of Aditi Mahavidyalaya is the core group of faculty members and students meant for organization of events related to science around us.

The Science Society organizes various activities for the college students to understand the fundamental concepts of science, making students aware of the happenings in the science, promotion of scientific methods and research to solve day to day problems, to generate the interest of students in pursuing career in science, provide directions and counseling for the higher studies in science, carrying out various science and education related undergraduate students research projects.

Since its inception, the Science Society has been organizing different workshops with hand on practice experiments for science and non-science students of the college. In the trying time of Corona virus led pandemic, the Science Society pursued online platform for carrying out its various activities, a glimpse letter is forwarded for the year 2020-21 activities.



Collecting flowers from our surroundings –
Students collection

Learning Science by doing Science session by
Joy of Learning Foundation

Vigyan Sanjeevini - Science Society

Dr. Manisha Wadhwa (Convener), Dr. Indu Nashier (Co-convener)
Dr. Priya Khurana, Dr. Bhupender Singh (Member)

Workshop (online) on 'Inquiry in the Science Classroom'

Science society organized three days online events for students on the theme "Inquiry in Science Classrooms" from 21 Dec, 2020 to 23 Dec, 2020. The inaugural session motivated students by a talk and interaction with experts from the field. The experts were:

Dr Monica Davar, Maharaja Surjal mal Institue , Guru Goving singh Indrapratha University

Inquiry based learning

Concept of Inquiry: Children, right from childhood , start exploring and asking questions to make sense of the world around them. Inquiry learning is an inductive model of learning in which learners are encouraged to observe phenomena, investigate and interpret data in order to generate rules and principles.

Dr Manasi Thapiyal, School of Education Studies, Ambedkar university

Science classroom as a gendered space

The talk focused on how gender stereotypes and ascribed roles impact students' aspirations and self-perceptions in STEM areas. Research amply shows that women's enrollment in science courses relates to the gender-science stereotype and has revealed that science is not only associated with a male person, but that masculine traits are also attributed to it. Gender differences do play out in school science with a subtle messaging where women and girls continue to be presented in passive roles. It is important therefore to not just aspire for gender-neutral science classrooms but for gender-sensitive pedagogic spaces.

Garima Bansal, Research Fellow, Australian Council for Educational Research India

Dr. Garima Bansal discussed the importance of constructing high-quality assessment questions. She elucidated the essential principles involved in designing high-quality questions for assessments. She discussed different types of assessment questions- multiple choice and constructed response with several examples from the primary grades. She highlighted the ways in which a good question can lead to development of higher order thinking skills among students.

It was followed by online quiz for students using platform of Quizzez.

On 23 Dec, 2020 online session on Hands on activities was organized by Ms Anshumala and her team from Joy of learning Foundation. The session was informative, practical and engaging on flowers in our surroundings and their reproduction. The workshop encouraged students to think critically about questions like how do we differentiate flowers from leaves? Do all flowers possess fragrance? Why do plants make flowers? What is the ultimate purpose of flowering?



ADITI MAHAVIDYALAYA

Webinar On Inquiry In Science Classrooms

21ST DECEMBER 2020, 10:30 AM Onwards

<p>Inquiry in Science Classroom</p> <p>Dr Monica Davar Maharaja Surajmal Institute Guru Gobind Singh Indraprastha University</p>	<p>Science classroom as a gendered space</p> <p>Manasi Thapiyal Assitant Professor School of Education Studies, Ambedkar University</p>	<p>Assessing Scientific Inquiry</p> <p>Dr. Garima Bansal Research Fellow Australian Council for Educational Research (India)</p>
<p>Dr. Manisha Wadhwa Dr. Priya Khurana Dr. Indu Nashier Dr. Bhupender Singh (Science Society)</p>	<p>Dr. Punita Gupta (Teacher-in-charge, Education)</p>	<p>Dr. Mamta Sharma (Principal)</p>



Gender Gap in STEM fields

Gender gap in STEM fields is widely recognized

The persistence of gendered paths in career choices has consistently been reflected in the Global Gender Gap Report of the World Economic Forum (WEF), which states that on average men are underrepresented in the fields of education, health and welfare whereas women are underrepresented in the STEM fields (WEF 2017, p.31)

Impact of the gender stereotype of Math and Science on students' career aspirations is also well documented

Studies have repeatedly reported that math and science are perceived as male domains, and scientists as predominantly male reinforcing beliefs about male supremacy in technical and science fields.

Levels of Inquiry

- 1) **Structured Inquiry**: Teacher directs the inquiry, provides open-ended questions and step by step instructions to students to conduct inquiry
- 2) **Guided Inquiry**: Teacher provides questions but students take up more responsibility in deciding the direction and methods of inquiry.
- 3) **Open ended inquiry**: Students decide upon the questions, direction and methods to be adapted while teacher just plays a supportive role.



From kajal -1907052 to Everyone
I think because every pollen grain, do not able to fertilize ovum so if...there will be only one pollen grain...there will be p...

Virtual Tour of Yamuna Biodiversity Park

On 22 Dec, 2020 a virtual visit to biodiversity park was organized. The resource persons Dr Faiyaz Ahmad Khudsar, Scientists In charge of the Park and Ms Preeti Vohra, Nature Education officer took through the park using pictures, videos and presentation. It seemed as if we were actually in the park walking through it trails. After that our students had lot of questions on elephant apple, box bug, butterflies, adaptability of moth and diversity in the park and role of park in conserving biodiversity. We learnt that conservation of biodiversity is important for keeping alive the complex food chains and food web.

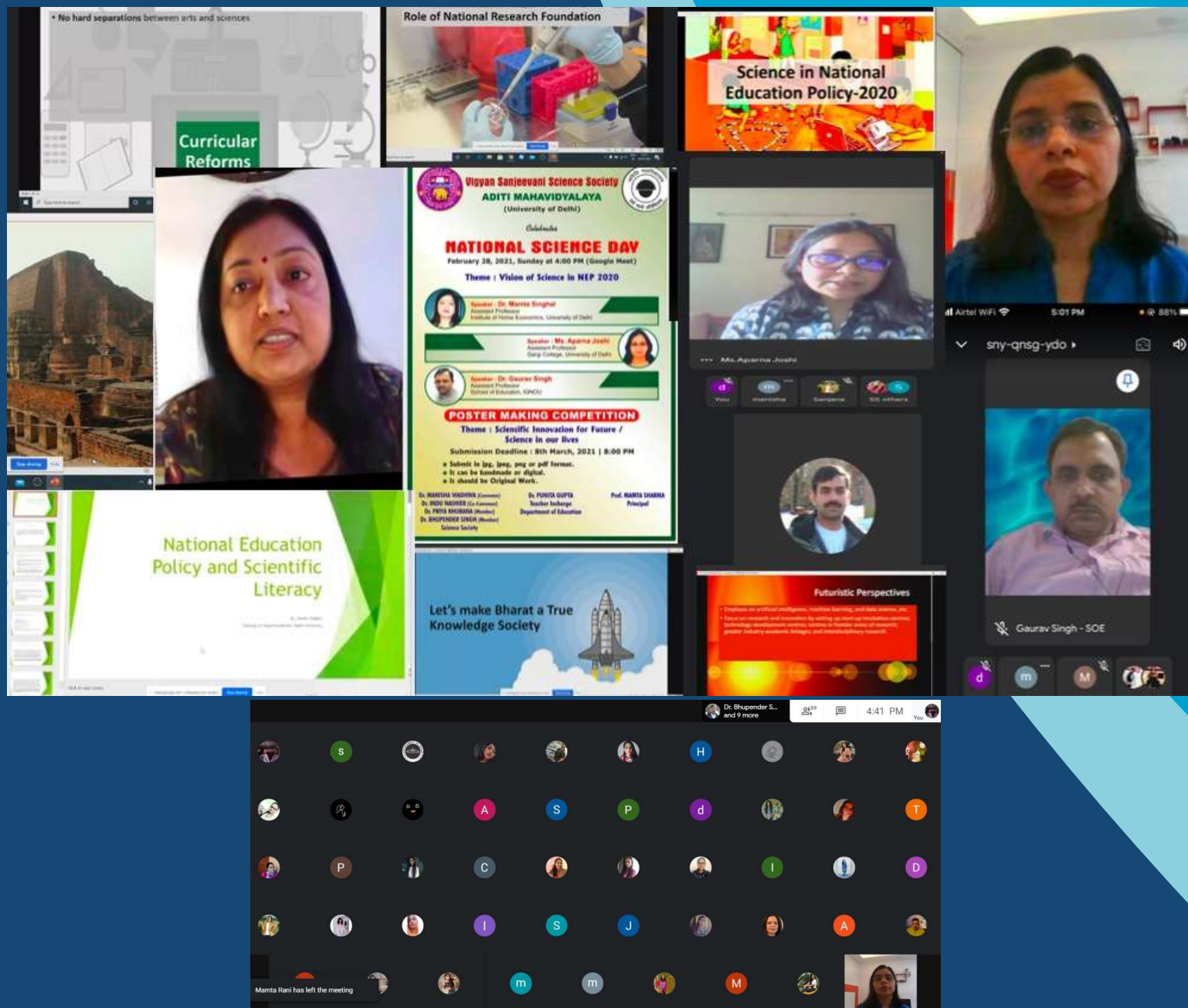
We gathered a lot of information like

- It harbours 2000 species of plants and animals living in some 20-25 biotic communities having 3 trophic levels.
- It has 60 species of butterflies, 50 species of dragon and damselflies, 200 species of birds and mammalian herbivores and carnivores.
- The Park has attracted a specialist herbivore – Barking deer and a top carnivore – the Leopard suggesting that ecosystem is functional.
- The mosaic of wetlands is home for hundreds of resident and migratory birds.
- The green cover together with large water reservoir harbours aquatic vegetation, phyto- and zooplanktons and fishes, resident and migratory ducks.
- There is also a Herbal garden, which has collection of around 450 living species.



National Science Day 2021

Science society celebrated the national science day by organizing a webinar for students on the topic “Vision of Science NEP 2020”. The resource persons of the events were Dr Mamta Singhal, Institute of Home Economics, University of Delhi, Ms Aparna Joshi, Gargi College, University of Delhi and Dr Gaurav Singh, School of Education, IGNOU. The webinar drew attention of students towards the key points of science in the National Educational Policy 2020.



Vigyan Sanjeevini – Science Society
Aditi Mahavidyalaya, University of Delhi, Bawana, Delhi 110039. India.

Science Society विज्ञान संजीवनी

2021- 2022

Teachers' Team: Prof Manisha Wadhwa, Prof Indu Nashier,
Dr Bhupender Singh and Dr Priya Khurana

Students' Coordinators: Prerna Sharma (President)
Ritika (Vice President)

Facebook page of Science Society: <https://www.facebook.com/Aditi-Science-Society-111892350215383/?ref=bookmarks>

- The science society celebrated National Energy Conservation Day on Dec14, 2021 by organizing an essay writing competition on the topic '**Energy Efficient India**'. Students enthusiastically participated in the essay competition. In their essays students came up with multiple suggestions to make our college and hence country energy efficient. Some of the prominent suggestions were -installing LED bulbs and tube lights, making insulation better in AC rooms, planning more events for energy conservation and encouraging staff and community to participate in such events, identifying situations where energy is being wasted and many other. Ms Sakshi, B.Com (Roll No 2105126) received first prize and Reema Kumari BEIEd 3rd year received second prize.
- On 14 Feb, 2022 a virtual visit to Yamuna Biodiversity Park was organized. The resource persons Dr Faiyaz Ahmad Khudsar, Scientists In charge of the Park and Ms Preeti Vohra, Nature Education officer took us through the park using pictures, videos and presentation. It seemed as if we were actually in the park walking through it trails. After that our students had lot of questions on elephant apple, box bug, butterflies, adaptability of moth and diversity in the park and role of park in conserving biodiversity. We learnt that conservation of biodiversity is important for keeping alive the complex food chains and food web.
- Dr Mamta Singhal, Institute of Home Economics, University of Delhi and Dr Rakesh Kumar, Department of Education, (CIE) University of Delhi were invited speakers for a webinar on the occasion of the National Science Day, on 28 February, 2022. The theme for the session was Science in Ancient India with reference to understanding Nature of Science. The webinar drew attention of students towards the fact that science has a culture of exploration, with inquisitive nature. Another significant point discussed was that science can't answer all questions. Indian views on science with reference to *Vaisheshika Nyaya* were discussed.
- A digital poster making competition was also organized on the occasion of the National Science Day. The theme of the competition was 'Science in Indian Monuments'. Students enthusiastically participated in the event and through their digital posters showed how Indian monuments were made scientifically centuries ago, even before the discoveries made in modern science. The following entries received prizes:
 - 1st Prize: Ishika Jain, B.Com 1st year (Roll No 210145)
 - 2nd Prize: Kajal Rajput, BEIEd 3rd year
 - 3rd Prize: Deepa, BEIEd 1st year

- Clay moulding competition on the occasion of Women's day ie March 8, 2022 was organized in collaboration with Eco-club. In the competition student designed jewellery products using clay and other handicraft. The following students received prizes:
 - 1st Prize: Shristy Goswami, BEIEd 1st year
 - 2nd Prize: Bhumika, BEIEd 3rd year
 - 3rd Prize: Tisha, B.Com (Hons)

- Three day workshop on 'Inquiry in Science Classroom' was organized from March 14, 2022 to March 16, 2022. For the first two days hands on activities were organized by resource persons – Ms Anshumala Gupta and her team from Joy of Learning Foundation. The sessions were on the topic 'Water; The Wonder Liquid' and 'Human Circulatory System'. The session addressed many misconceptions of students like - You only get dehydrated when you sweat a lot; Eight glasses of water a day?, Drinking more water improves your skin; Drinking more water helps in weight loss; Sports drinks are better than water?; Clear urine means you're always properly hydrated; All arteries carry oxygenated blood; all veins carry de-oxygenated blood; Blood travels in one continuous loop around the body; Blood circulation involves only heart; De-oxygenated blood is blue in colour and when it comes in contact with oxygen it becomes red in colour; The session was informative, practical and engaging. The workshop encouraged students to think critically.

- On March 16, 2022 a discussion was organized on the theme 'Role of Science and Technology in Society'. The invited discussants were Dr Subhash Chandra, Department of Education, University of Delhi and Ms Aparna Joshi, Gargi College, University of Delhi. The session focussed on how knowledge is produced, distributed and utilised in any society and how it influences lives of people and vice versa i.e. how people and their demand influence research in science and technology.



VIGYAN SANJEEVNI

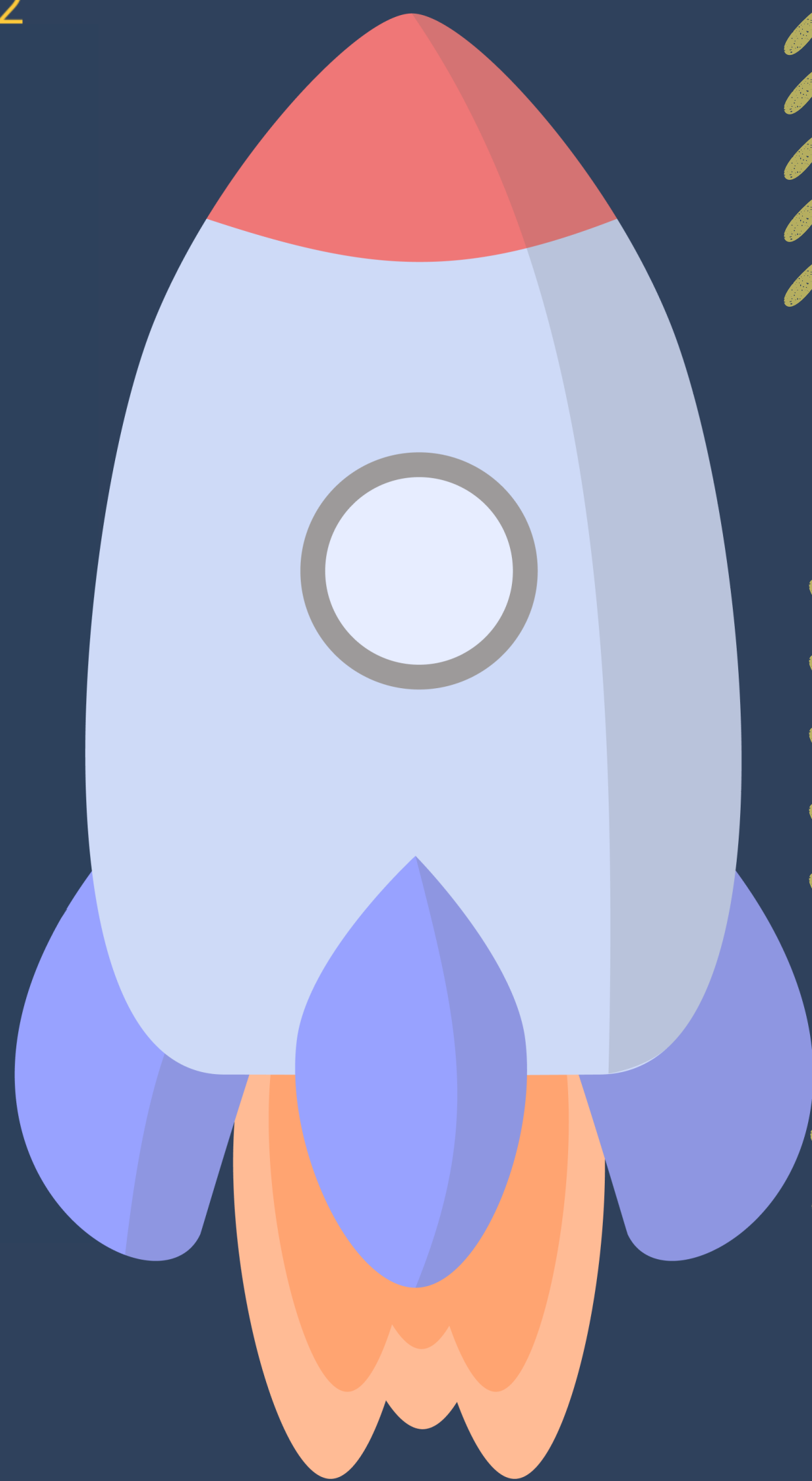
NEWSLETTER
2021-2022

The Vigyan Sanjeevni Science Society.

Aditi Mahavidyalaya is a group of teachers and students which organises events related to science around us

The Science Society organizes various activities for the college students for understanding the fundamental concepts of science, making students aware of the happenings in the science, promotion of scientific temper and research to solve day to day problems, to generate the interest of students in pursuing career in science, provide directions and counseling for the higher studies in science, carrying out various science and education related research projects.

Since its inception, the Science Society has been organizing different workshops with hand on practice experiments for science and non-science students of the college. In the pandemic time the Science Society continued its activity through online platform. A glimpse for carry is for the year 2021-22 activities is in the newsletter .



STUDENT CO-ORDINATORS

MS. Prerna Sharma
(President)

MS. Ritika
(Vice-President)

STUDENT EDITORS

Pranjal Priya Bhumika Madaan Jhilmil
Disha Gautam

TEACHER CO-ORDINATORS

Prof. Manisha Wadhwa Prof. Indu Nashier

Prof. Priya Khurana Prof. Bhupender Singh



मणिमुक्ता

jewellery clay moulding competition



Clay moulding competition on the occasion of Women's day was organized by Vigyan Sanjeevani Science Society in collaboration with Eco-club on 8th March 2022.

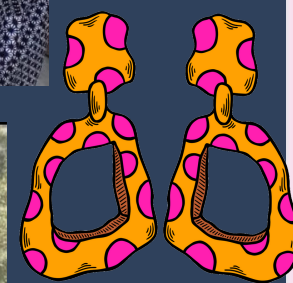
Student enthusiastically participated in this jewellery making competition and showed how something unique can be created out of the raw.



First position: SHRISHTI GOSWAMI from b.e.ed 1st year

Second position: BHUMIKA from b.e.ed 3rd year

Third position: TISHA from B.com hons. 1st year



Aditi Mahavidyalaya (University of Delhi) Eco Club
And Vigyan Sanjeevani Science Society
 is organising a competition
"मणिमुक्ता"
 Jewellery Clay Moulding Competition
 On the occasion of **WOMEN'S DAY**

-Students will be provided with the material if they make the jewellery on the spot.
 -You can also make the jewellery at home and submit it on the given time at the venue.

Prize Distribution - 9th March 2022
 *Hamper for first 3 runner ups
 *Free Herbal Skincare pouches for all participants

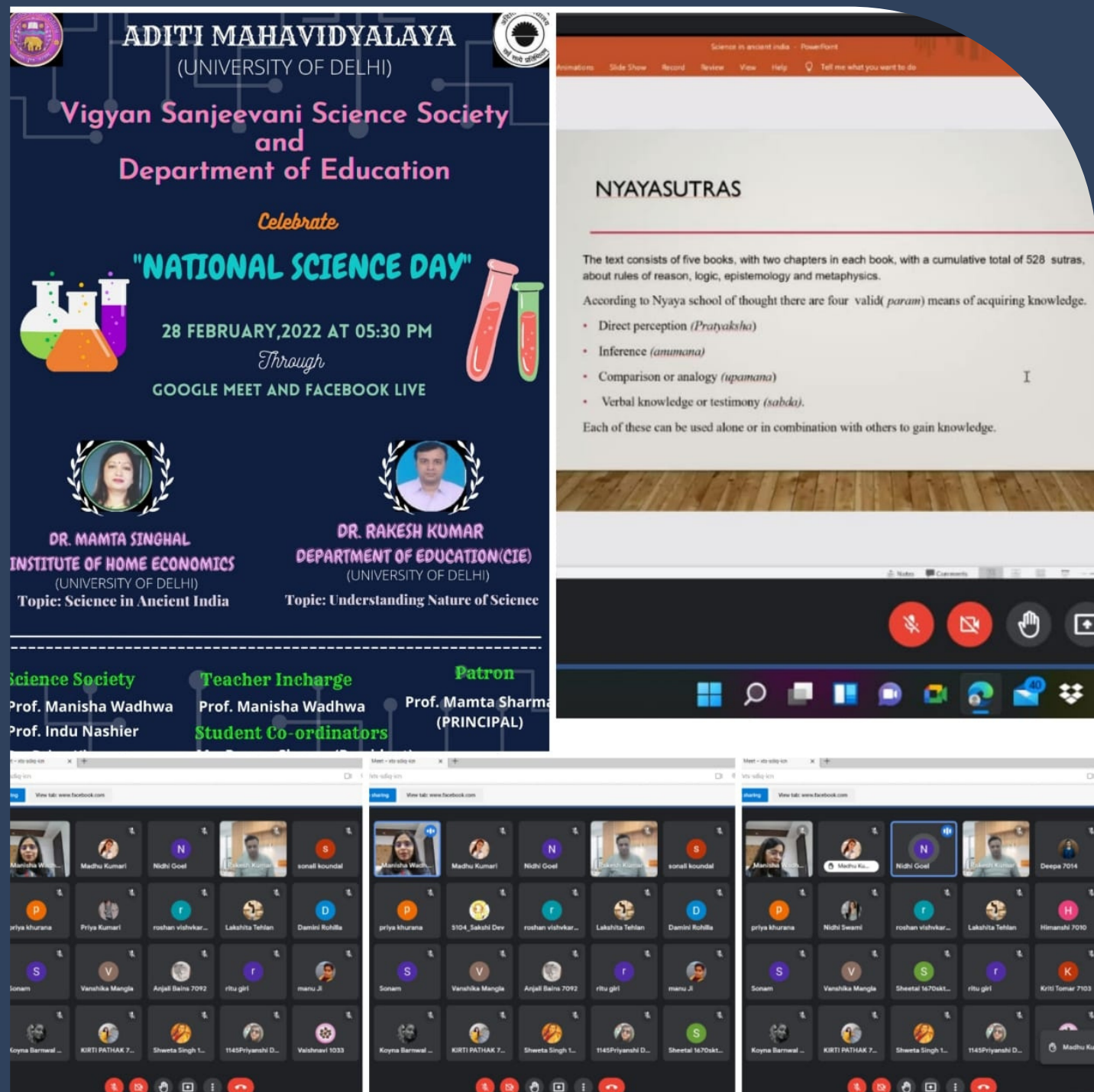
Student Co-ordinators- Ms. Purna Sharma (President)
 Ms.Ritika (Vice President)

Eco Club Dr. Indu Nashier Gahlawat (convener) Dr. Nalini Singh (Co-convener)	Science Society Prof. Manisha Dabas Wadhwa(convener) Dr. Indu Nashier Gahlawat(Co-convener)	Patron Prof. Mamta Sharma (Principal)
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Date: 8th March 2022
Time: 11am to 1pm
Venue: Main Stage

NATIONAL SCIENCE DAY

Webinar



ADITI MAHAVIDYALAYA
(UNIVERSITY OF DELHI)

Vigyan Sanjeevani Science Society and Department of Education

Celebrate
"NATIONAL SCIENCE DAY"
28 FEBRUARY, 2022 AT 05:30 PM
Through
GOOGLE MEET AND FACEBOOK LIVE

DR. MAMTA SINGHAL
INSTITUTE OF HOME ECONOMICS
(UNIVERSITY OF DELHI)
Topic: Science in Ancient India

DR. RAKESH KUMAR
DEPARTMENT OF EDUCATION (CIE)
(UNIVERSITY OF DELHI)
Topic: Understanding Nature of Science

Science Society
Prof. Manisha Wadhwa
Prof. Indu Nashier

Teacher Incharge
Prof. Manisha Wadhwa
Student Co-ordinators

Patron
Prof. Mamta Sharm
(PRINCIPAL)

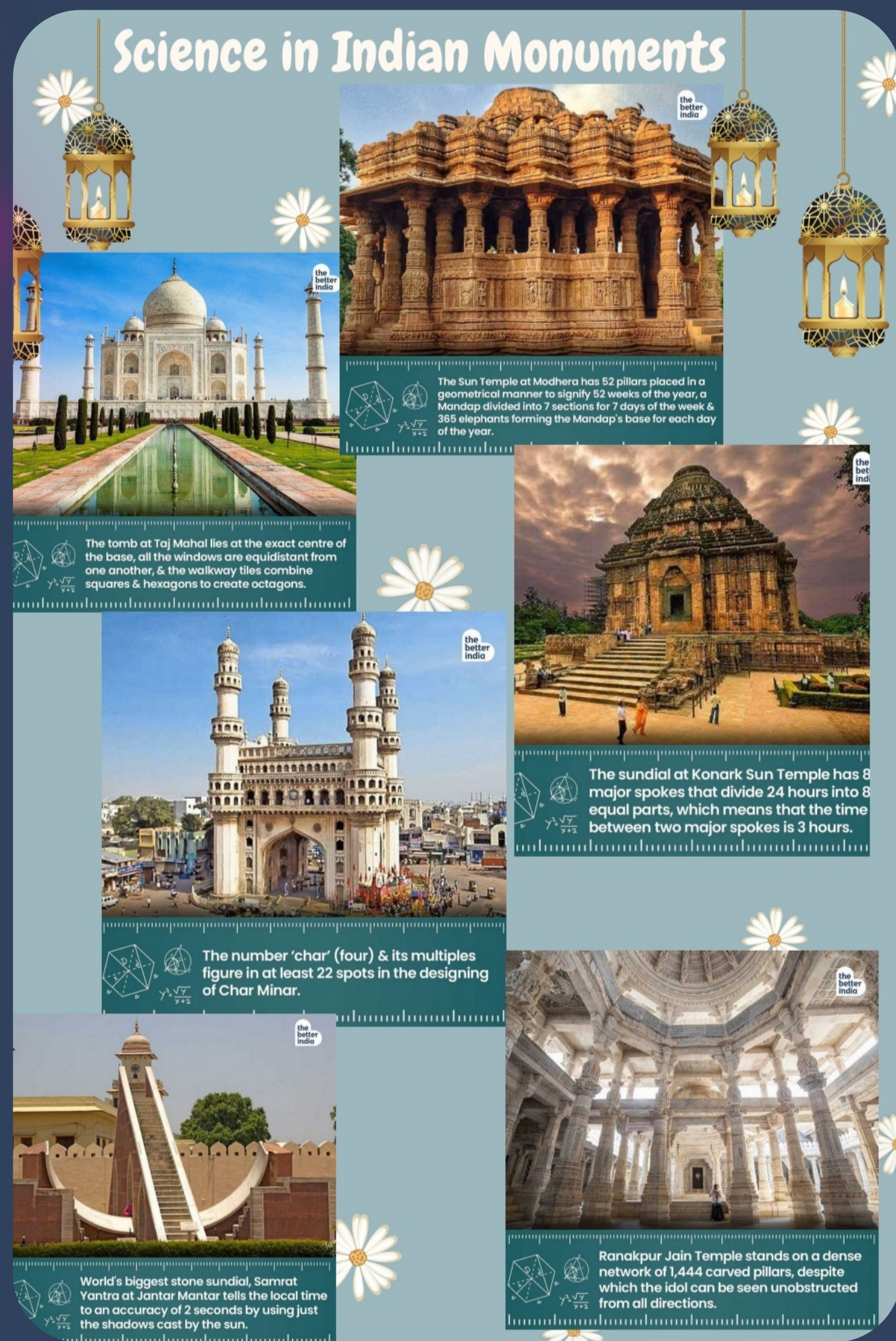
NYAYASUTRAS

The text consists of five books, with two chapters in each book, with a cumulative total of 528 sutras, about rules of reason, logic, epistemology and metaphysics.

According to Nyaya school of thought there are four *valik puram* means of acquiring knowledge.

- Direct perception (*Pratyaksha*)
- Inference (*anumana*)
- Comparison or analogy (*upamana*)
- Verbal knowledge or testimony (*shabda*).

Each of these can be used alone or in combination with others to gain knowledge.



Science in Indian Monuments

The Sun Temple at Modhera has 52 pillars placed in a geometrical manner to signify 52 weeks of the year, a Mandap divided into 7 sections for 7 days of the week & 385 elephants forming the Mandap's base for each day of the year.

The tomb at Taj Mahal lies at the exact centre of the base, all the windows are equidistant from one another, & the walkway tiles combine squares & hexagons to create octagons.

The sundial at Konark Sun Temple has 8 major spokes that divide 24 hours into 8 equal parts, which means that the time between two major spokes is 3 hours.

The number 'char' (four) & its multiples figure in at least 22 spots in the designing of Char Minar.

World's biggest stone sundial, Samrat Yantra at Jantar Mantar tells the local time to an accuracy of 2 seconds by using just the shadows cast by the sun.

Ranakpur Jain Temple stands on a dense network of 1444 carved pillars, despite which the idol can be seen unobstructed from all directions.

A digital poster making competition was organized on the occasion of the National Science Day. The theme of the competition was 'Science in Indian Monuments'. Students enthusiastically participated in the event and through their digital posters showed how Indian monuments were made scientifically.

Dr Mamta Singhal, Institute of Home Economics, University of Delhi and Dr Rakesh Kumar, Department of Education, (CIE) University of Delhi were invited speakers for a webinar on the occasion of the National Science Day, on 28 February, 2022. The theme for the session was Science in Ancient India with reference to understanding Nature of Science.

The webinar drew attention of students towards the key points of science.



PRIZE CORNER

1st Prize: Ishika Jain, B.Com 1st year (Roll No 210145)

2nd Prize: Kajal Rajput, BEEd 3rd year

3rd Prize: Deepa, BEEd 1st year





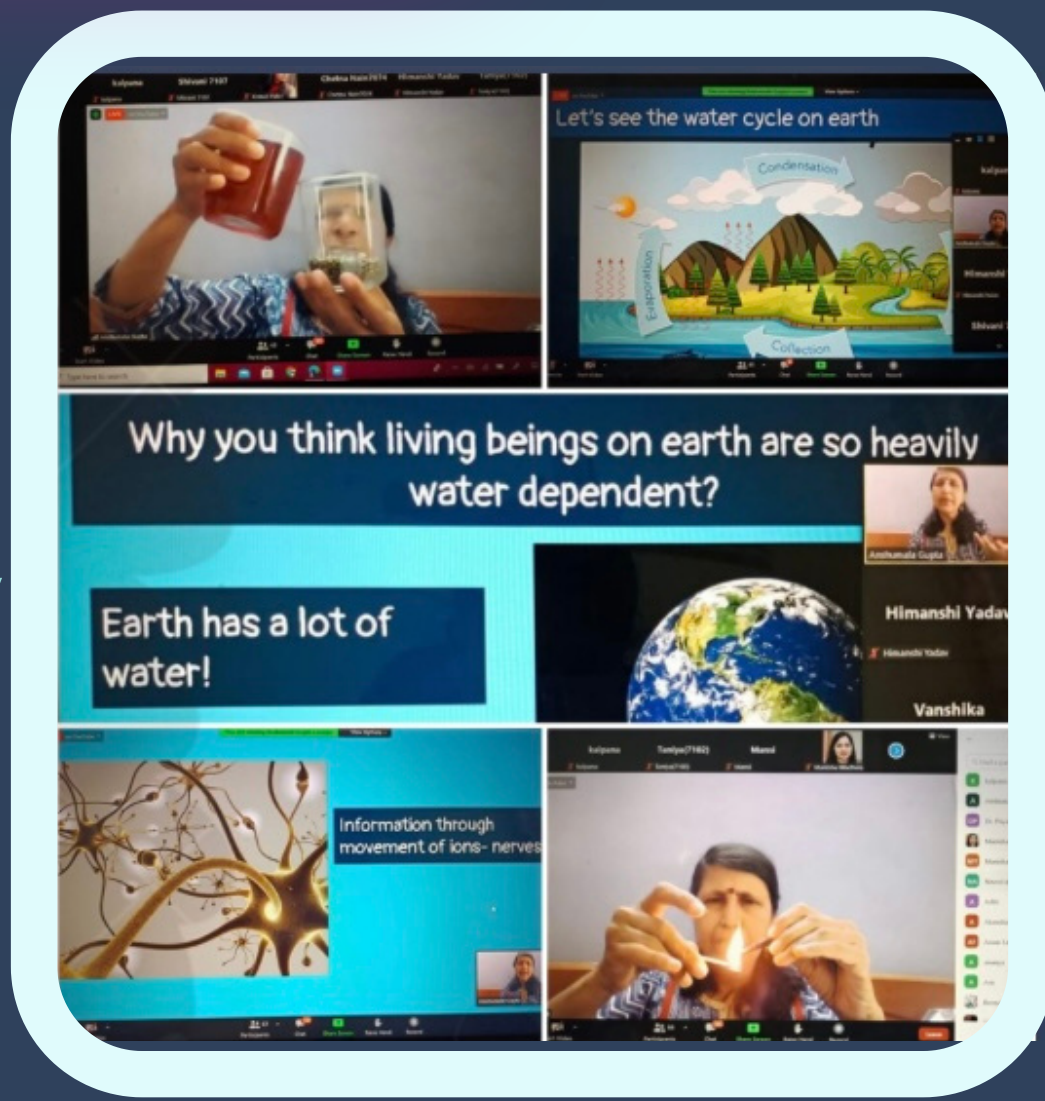
ESSAY WRITING COMPETITION



Webinar

INQUIRY IN SCIENCE CLASSROOM

Three days workshop on Inquiry in Science Classroom was organized from March 14, 2022 to March 16, 2022. For the first two days hands on activities were organized. by resource persons - Ms Anshumala Gupta and her team from Joy of Learning Foundation. The session was informative, practical and engaging. The workshop encouraged students to think critically. On March 16, 2022 a discussion was organized on the theme Role of Science and Technology in Society. The invited discussants were Dr Subhash Chandra, Department of Education, University of Delhi and Ms Aparna Joshi, Gargi College, University of Delhi.





**VIGYAN SANJEEVANI SCIENCE SOCIETY
ADITI MAHAVIDYALAYA
(University of Delhi)**



Celebrates

NATIONAL ENERGY CONSERVATION DAY

On 14 December, 2021

Essay Writing Competition

Topic:
Energy Efficient India

- Submission by 31 December, 2021
- Typed Font=> Size 12
=> Times New Roman
- It should be original writing
- Word limit - 2000 words
- Should be written in Hindi or English
- Essay to be sent on sciencesocietyaditi@gmail.com

Registration link for the event
<https://forms.gle/scfLjyvRiqNYrt22A>

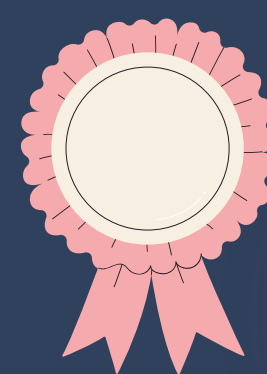
Dr. Manisha Wadhwa (Convener)
Dr. Indu Nashier (Co-Convener)
Dr. Priya Khurana (Member)
Dr. Bhupender Singh (Member)

Science Society

Prof. Mamta Sharma
(Principal)

The science society celebrated National Energy Conservation Day on Dec 14, 2021 by organizing an essay writing competition on the topic 'Energy Efficient India'.

Students enthusiastically participated in the essay competition. Some of the prominent suggestions were - Installing LED bulbs and tube lights, making insulation better in AC rooms, planning more events for energy conservation and encouraging staff and community to participate in such events, identifying situations where energy is being wasted and many other.



PRIZE CORNER

- Ms Sakshi B.Com (Roll No 2105126) received first prize
- Reema BELED 3rd year received second prize

Report of Science Society विज्ञान संजीवनी 2022-2023

Teachers' Team: Prof Manisha Wadhwa

Prof Indu Nashier,

Dr Priya Khurana

Dr Bhupender Singh

Students' Coordinators: Prerna Sharma (President)

Ritika (Vice President)

Facebook page of Science Society: <https://www.facebook.com/Aditi-Science-Society-111892350215383/?ref=bookmarks>

Details of activities organized in the academic session 2022- 2023

- Organized a **Workshop on Air Quality** in collaboration with Lung Care Foundation under the aegis of Delhi Effective Education and Pedagogy Cluster on Jan 11, 2023 in the Reading Hall of the college. Dr Mitali Raja, Project Director for Clean Air and Climate Action, Lung Care Foundation and Dr Anurag Saini from Cluster Innovation Centre were resource persons for the workshop. The resource persons shared the real time data of air pollution and how different activities are contributing to it. The session also discussed possible steps taken by individuals to reduce the air pollution. 92 students and 8 teachers attended the workshop.
- In collaboration with Eco Club, Aditi Mahavidyalaya, Lohri, Pongal and Makar Sankranti was celebrated on Jan 13, 2023 where in students were invited to participate in the **events on Rice powder Art work, innovative Lohri Thali** using

eco-friendly things, and handicrafts using groundnut shells, flowers and other decorative items.


- Celebration of **International Day of Women and Girls in Science** (as observed by the United Nations) on Feb 11, 2023 was organized with a webinar on the theme. The objective is to promote the full and equal access and participation of Women in Science, Technology, Engineering and Mathematics (STEM). Prof Rambir Singh from the department of Horticulture, Aromatic and Medicinal Plants of the Mizoram Central University and Dr Shilpa Jain from the Department of Chemistry, Shivaji College, University of Delhi were the invited speakers for the event. The session focussed on critical role of women and girls in science and technology. Students were inspired by highlighting achievements of famous women scientists.
- On Feb 2, 2023 a group of 37 students of BEIEd Ist year from the Science Society visited **Yamuna Biodiversity Park** along with Dr Priya Khurana and Dr Gomti on the occasion of the **World Wetlands Day 2023**. The list of students is: Muskan, Vandana, Ruby, Aarchi, Airam, Kaushiki, Yukti, Mohini, Pritika, Monika, Sargam, Tammanna, Ekta Singh, Vanshika, Nivedita Anand, Khushi Mishra, Shweta, Divya, Roshni, Payal, Simran Kumari, Nitya, Bulbul, Tannu kashyap, Lavanya, Khyati, Bhoomika Bhatt, Gunjan Sharma, Deepika tanwar, Nashra, Shifa Malik, Laxmi Kumari, Isha, Sandhya Kumari, Shivani Mishra, Nashra, and Shifa Malik. The visit to the Yamuna Biodiversity Park nature reserve of Delhi, provided students with an opportunity to understand the need for preserving a network of wetlands, grasslands, and forest communities. Students visited Yamuna Biodiversity Park's fully developed ecosystem and experienced the living laboratory of nature. Students interacted with experts on the occasion and enhanced about the importance of Wetlands for people and the planet.
- Dr Sunita Sahrawat from the Department of Education, G.D. Goneka University was invited speaker for a webinar on the occasion of the **National Science Day, on 28 February, 2023** in the blended mode. About 90 students and 10 teachers


attended the event in the college reading hall. The theme for the session was Modern Science and Technology in light of Bhagavad Gita: An Educational Perspective. The webinar drew attention of students towards the fact that Bhagavad Gita is not the Science of a particular community – it is the Universal Science of the soul. It is a science that compels us to embrace divinity and divine qualities. All other bodies of knowledge are subject to change but this body of knowledge contained in Bhagavad Gita is timeless – eternal. The resource person discussed how the Law of conservation of mass, i.e. **the mass can neither be created nor destroyed but is transformed from one form to another** and the Newton's third law of motion, i.e., **Every action has equal and opposite reaction** is applicable to us.

Minutes of the meeting held on Dec 10, 2019 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda : To organize 4 days seminar cum workshop for BEIED Students from Jan 7 – Jan 10, 2020 in collaboration with the Department of Education

It was decided to organize workshops, panel discussion and hands on activities session and competition related to science for students.

Theme: Women, Science and Teacher Education.

The following schedule was finalized:

Programme

Jan 7 2020:

10 am to 12 noon: Inaugural and Keynote address on the theme by Prof Anita Rampal (Former Head and Dean, Faculty of Education, University of Delhi, Delhi).

1 pm to 3 pm: Hands on activities by Joy of Learning Foundation on Physics (Static Charge, Current flow and Electricity)

Jan 8 2020:

10 am to 12 noon: Panel discussion with panellist Prof Gurjeet Kaur (Jamia Millia Islamia) and Dr Kalyani Akalamkam (Lady Shri Ram College for Women, University of Delhi)

12:30 pm to 1:30 pm: Special lecture of Prof Vandana Saxena (Department of Education, CIE, University of Delhi, Delhi) on gender representations in Science textbooks

Jan 9, 2020:

10 am to 12 noon: Lecture cum Demonstration by Ms Nisha Sharma, (an Alumna of the college) TGT Science with Directorate of Education, Delhi

1 pm to 3 pm: Hands on activities by Joy of Learning Foundation on Chemistry (Matter – Solid, liquid and Gas; Electrolysis and electricity conduction in salts

Jan 10, 2020

9 am to 10 am: Poster Making Competition

10:30 am to 11 am: Quiz Competition

11 am to 1pm: Hands on activities by Joy of Learning Foundation on Biology (Digestion, Nutrition and Respiration)

2pm to 3 pm: Valedictory address and certificate distribution by Dr Subhash Chander from Department of Education (CIE), University of Delhi, Delhi

It was decided the refreshment of students and resource persons, honorarium for resource persons will be given from the budget of department of education. It was decided that students will be motivated to join the programme in large numbers.


Dr Ritu Chowdhary, Teacher In-Charge, BEIED will be invited for inaugural and Valedictory session.


It was decided that Dr Indu Nashier will take care of refreshments, Dr Bhupender Singh will take care of arrangements of Hall, speaker, laboratories (workshops), laptop and projector, Dr Priya Khurana will take care of pictures and reports of each session. Dr Manisha Wadhwa will coordinate with guests and smooth organization of the event.


Minutes of the meeting held on Jan 14, 2020 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: To review the programme conducted for BEIED Students from Jan 7 – Jan 10, 2020 in collaboration with the Department of Education

Summary

Dr Mamta Sharma, Principal delivered the inaugural address. Prof Anita Rampal (Former Head and Dean, Faculty of Education, University of Delhi, Delhi) delivered the keynote address. She highlighted the role of women scientists in contribution towards scientific knowledge and research by using examples of Marie Curie and Rosalind Franklin. In her address she drew examples from indigenous knowledge by mentioning that scientific knowledge is not limited to institutes. It is there in our daily life practices by using how traditional knowledge of cure of chicken pox was there even before Edward Jenner discovered it.

The panel discussion with panellist Prof Gurjeet Kaur (Jamia Millia Islamia) and Dr Kalyani Akalamkam (Lady Shri Ram College for Women, University of Delhi) was organised on Jan 8th, 2020. Both panellists build the perspectives on why there are fewer women scientists and how women find science alienated. They shared data and examples of women discrimination in Higher Education in Science. Further, they discussed how teachers and pre service teachers bring change in their pedagogic strategies to bridge the gap between science and women. On that day another special lecture of Prof Vandana Saxena (Department of Education, CIE, University of Delhi, Delhi) was organised. Her talk focussed on gender representations in textbooks and pedagogy-based research evidence to bring gender equity in Science Education.

Ms Nisha Sharma, (an Alumna of the college) TGT Science with Directorate of Education, Delhi conducted a Lecture cum Demonstration with students on Jan 9th, 2020. She demonstrated classroom activities for number of scientific concepts like acid – base indicators, magnets and magnetic lines of forces, light – reflection and refraction.

Three workshops on the topics from Physics (Static Charge, Current flow and Electricity), Chemistry (Matter – Solid, liquid and Gas; Electrolysis and electricity conduction in salts) and Biology (Digestion, Nutrition and Respiration) were organised on 7, 9 and 10th Jan, 2020. The resource persons for the workshops were Ms Anshumala Gupta, Mr Vikas Saini and Mr Hitesh Khatwani from the Joy of Learning Foundation. During these workshops' students had hands on experience of number of activities in science.

In the event poster making competition and quiz competition on the theme of the seminar were organised by the student body of Science Society (Ms Ojsvi, Ms Muskaan and Ms Priya from BEIEd IVth year). For the Poster Making Competition students were given an hour to make poster on A3 size paper. The winners of the competition were:

Ist Prize: Unnati Rana (BEIEd IVth Year)

IIInd Prize: Pranjali Priya (BEIEd Ist Year), Kajal (BEIEd Ist Year)

IIIrd Prize: Harshita (BEIEd Ist Year), Aakriti Gupta (BEIEd IIIrd Year)

Quiz Competition was organised in three rounds. The winners of the competition were:

Ist Prize: Pallavi (BEIEd Ist Year)

IIInd Prize: Jyoti (BEIEd IVth Year)

IIIrd Prize: Priyanka (BEIEd Ist Year)

Dr Subhash Chander from Department of Education (CIE), University of Delhi, Delhi delivered the valedictory address for the seminar. He raised few concerns for pre-service teachers (BEIEd Students) like removing 'fear of science' and encouraging the skill of 'asking questions' among children at primary and elementary school level. He appreciated the efforts of students and teachers of the department for organising mega event on the theme.

Minutes of the meeting (online) held on Dec 10, 2020 at 5:00 pm

Members present

Dr Manisha Wadhwa (Convenor)



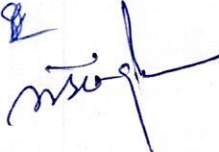
Dr Indu Nashier (Co-Convenor)



Dr Priya Khurana (Member)



Dr Bhupinder Singh (Member)



Agenda: To Celebrate Annual Science Week from 21 – 23 Dec, 2020

It was decided to organize three days online events for students on the theme “**Inquiry in Science Classrooms**” from 21 Dec, 2020 to 23 Dec, 2020.

Programme:

Dec 21, 2020: Inaugural session

Resource Persons: Dr Monica Davar, Maharaja Surjal mal Institute , Guru Govind singh
Indrapratha University

Dr Manasi Thapyal, School of Education Studies, Ambedkar university
Garima Bansal, Research Fellow, Australian Council for Educational
Research India

Quiz using Kahoot Platform

Dec 22, 2020: Virtual visit to the Yamuna biodiversity park

Dec 23, 2020: Online session of Hands-on activities was organized by Ms Anshumala and her
team from Joy of learning Foundation

It was decided that Dr Bhupinder will create a google classroom and Google meet link for
conduct of quiz, interaction and virtual visit. Dr Priya Khurana will make a summary of each
session. Dr Indu Nashier will coordinate with volunteers and look after the smooth conduct. Dr
Manisha Wadhwa will coordinate with guests and moderate sessions.

Minutes of the meeting (online) held on Dec 27, 2020 at 5:00 pm

Members present

Dr Manisha Wadhwa (Convenor) *Manisha*

Dr Indu Nashier (Co-Convenor) *Indu*

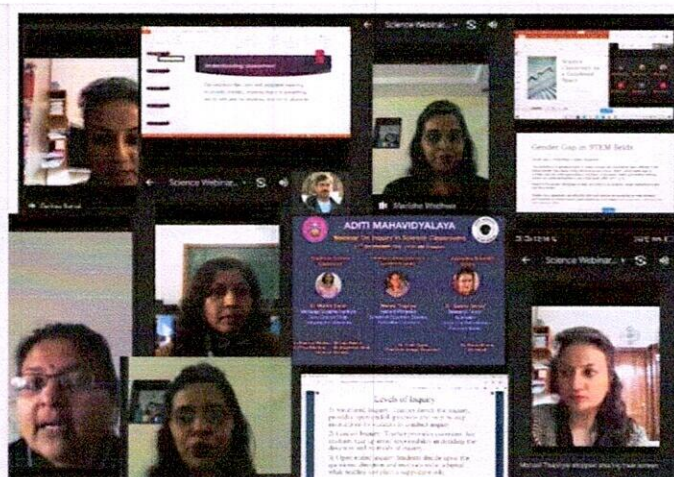
Dr Priya Khurana (Member)

Dr Bhupinder Singh (Member) *Bhupinder Singh*

Agenda: Action taken report of Annual Science Week held from 21 – 23 Dec, 2020

Summary:

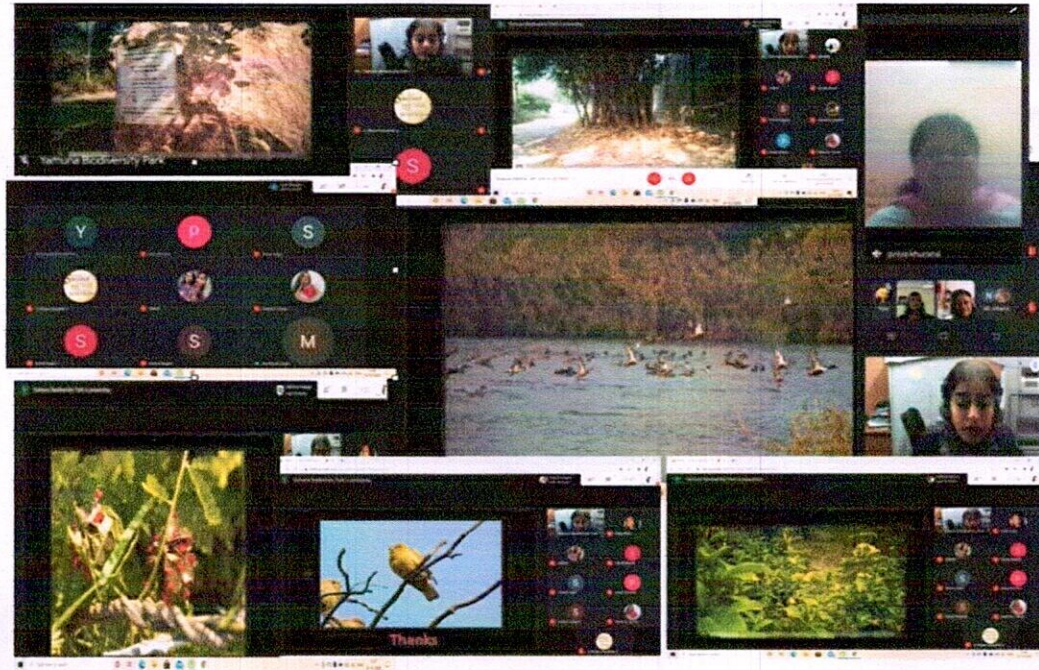
Celebration of Annual Science Week Science society organized three days online events for students on the theme **“Inquiry in Science Classrooms”** from 21 Dec, 2020 to 23 Dec, 2020. The inaugural session motivated students by a **talk and interaction with experts from the field**. The experts were:



- Dr Monica Davar, Maharaja Surjal mal Institue , Guru Goving singh Indrapratha University
- Dr Manasi Thapiyal, School of Education Studies, Ambedkar university
- Garima Bansal, Research Fellow, Australian Council for Educational Research India

It was followed by online quiz for students using platform of Kahoot.

On 22 Dec, 2020 a **virtual visit to the Yamuna biodiversity park** was organized. The resource persons Dr Faiyaz Ahmad Khudsar, Scientists In charge of the Park and Ms Preeti Vohra, Nature Education officer took has through the park using pictures, videos and presentation. It seemed as if we were actually in the park walking through it trails. After that our students had lot of questions on elephant apple, box bug, butterflies, adaptability of moth



and diversity in the park and role of park in conserving biodiversity. We learnt that conservation of biodiversity is important for keeping alive the complex food chains and food web.


On 23 Dec, 2020 **online session of Hands-on activities** was organized by Ms Anshumala and her team from Joy of learning Foundation. The session was informative, practical and engaging on flowers in our surroundings and their reproduction. The workshop encouraged students to think critically about questions like how do we differentiate flowers from leaves? Do all flowers possess fragrance? Why do plants make flowers? What is the ultimate purpose of flowering?


Students enthusiastically participated in all events.

Minutes of the meeting (online) held on Feb 14, 2021 at 5:00 pm

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: To Celebrate National Science Day on Feb 28, 2021

Theme: "Vision of Science in NEP 2020".

The resource persons of the events were Dr Mamta Singhal, Institute of Home Economics, University of Delhi, Ms Aparna Joshi, Gargi College, University of Delhi and Dr Gaurav Singh, School of Education, IGNOU on Feb 28, 2021

It was decided that Dr Bhupender will create a google classroom and Google meet link for conduct of the event. Dr Priya Khurana will make a summary of each session. Dr Indu Nashier will coordinate with volunteers and look after the smooth conduct. Dr Manisha Wadhwa will coordinate with guests and moderate session.

Minutes of the meeting (online) held on March 5, 2021 at 5:00 pm

Members present

Dr Manisha Wadhwa (Convenor) *Manisha*

Dr Indu Nashier (Co-Convenor) *Indu*

Dr Priya Khurana (Member) *Priya*

Dr Bhupinder Singh (Member) *Bsingh*

Agenda: Action taken Report on Celebration of the National Science Day on Feb 28, 2021

Summary:


Science society celebrated the **National Science day on Feb 28, 2021** by organizing a webinar for students on the topic “Vision of Science in NEP 2020”. The resource persons of the events were Dr Mamta Singhal, Institute of Home Economics, University of Delhi, Ms Aparna Joshi, Gargi College, University of Delhi and Dr Gaurav Singh, School of Education, IGNOU. The webinar drew attention of students towards the key points of science in the National Educational Policy 2020.




Minutes of the meeting (online) held on May 15, 2021 at 5:00 pm

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member)

Agenda: To Celebrate International Day for Biological Diversity on 22 May, 2021

It was informed that E Newsletter released on 10 April, 2021 during VC and his team's visit to the college.

The following programme was decided for the International Day for Biological Diversity

Programme:

Lecture cum Discussion by Dr Bela Bhatia, Associate professor in the department of Botany, Deshbandhu College, University of Delhi on the theme.


Virtual Biodiversity Visit in collaboration with Eco-club


It was decided that Dr Bhupender will create a google classroom and Google meet link for conduct of the event. Dr Priya Khurana will make a summary of each session. Dr Indu Nashier will coordinate with volunteers and look after the smooth conduct. Dr Manisha Wadhwa will coordinate with guests and moderate session.

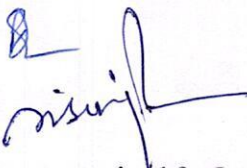
Minutes of the meeting (online) held on May 27, 2021 at 5:00 pm

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

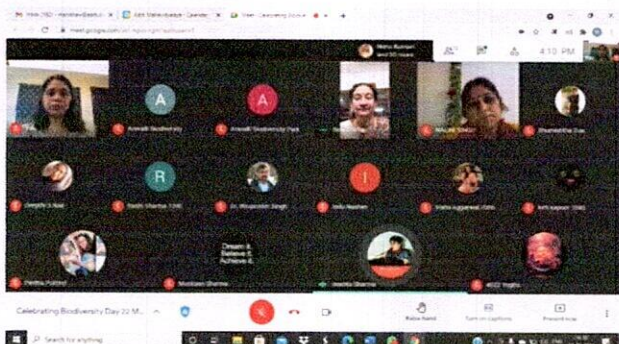
Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: To review the programme organized for International Day for Biological Diversity on 22 May, 2021

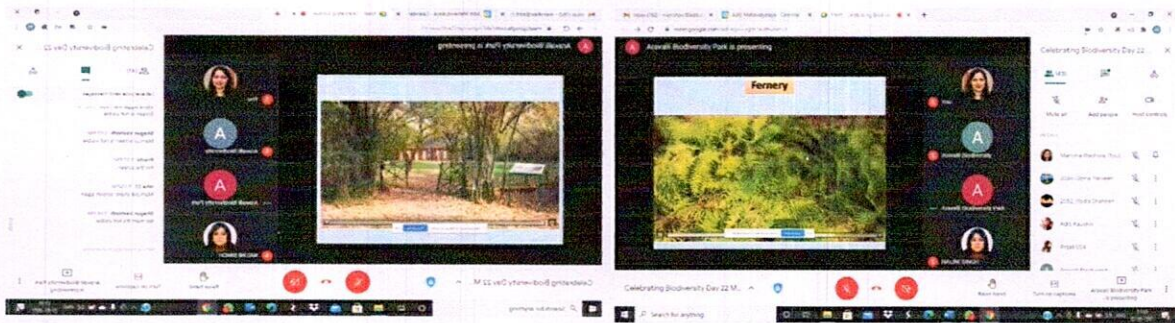
Summary:

An online event (webinar) was organized on the occasion of the International Day for Biological Diversity for bringing awareness among students of Aditi Mahavidyalaya. More than 80 students and about 15 teachers from different departments of the college and the principal, Aditi Mahavidyalaya attended the session.

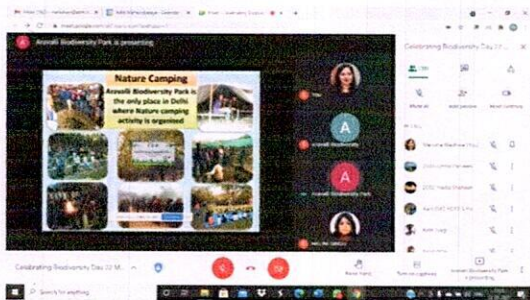


For this a talk was conducted by Dr Bela Bhatia, Associate professor in the department of Botany, Deshbandhu College, University of Delhi. She discussed the concepts of Biodiversity – its benefits, hotspots and conservation. She also raised the concerns about factors like pollution, global warming, responsible for loss of biodiversity. She simplified this technical discussion by taking simple examples of the peepal tree, neem, kadam and Indian cherry and these contribute to the web of life. Dr Bela finally concluded her talk by explaining how we individuals can contribute towards conservation of biological diversity.

It was followed by discussion and Virtual walk to the Aravalli Biodiversity park by Dr M Shah Hussain (Scientist In charge, Aravalli biodiversity Park) and Ms Balwinder Kaur (Nature Education Officer, Aravalli Biodiversity Park). Dr Hussain explained how celebration of special day like today brings awareness to masses. He further elaborated that Biodiversity parks are action models based on research which significantly contribute to biodiversity restoration. The virtual walk was amazing. It seems that we were actually in the park.



The resource persons took us to all trails of the park – including rose conservatory, succulent species conservatory, sterculia dominated forest, medicinal plants conservatory, butterfly conservatory, corridor forest, orchid conservatory, fern conservatory and many others. It shared many interesting videos about porcupine, peacocks, snakes, kingfishers, jackals, painted grasshopper, house sparrows and many other insects and birds.




The video on life cycle of butterfly was amazing which shows how larva was turned into a caterpillar and how pupa is formed. No words are enough to describe the metamorphosis of pupa into a beautiful butterfly. The virtual visit ended with an interesting and amazing film on the Aravalli Biodiversity park which has captured very unique moments and details about various species of plants, animals, birds and insects in the biodiversity park.


A few questions on individual contribution towards biodiversity conservation and signs on biodiversity restoration were also discussed. The virtual tour was a treat to students and a must visit place. It was appreciated by one and all.


Minutes of the meeting held on July 27, 2021 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: 1 Students' Volunteers for Science Society

2 Budget of the Science Society

1 Dr Manisha Wadhwa informed that a students' orientation for science society was organized and a dedicated team of volunteers was formed and they elected their president and vice-president as follows:

Perna Sharma (President)

Ritika (Vice President)

Dr Indu Nashier informed that students with permission from the Principal have created a Facebook page for the society as follows:


<https://www.facebook.com/Aditi-Science-Society-111892350215383/?ref=bookmarks>


2 The budget for the session was discussed and approved. It is enclosed herewith.

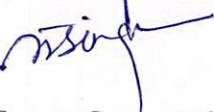
Minutes of the meeting held on Dec 2, 2021 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 


Agenda: To celebrate National Energy Conservation Day on Dec14, 2021


It was decided that the science society will celebrate National Energy Conservation Day on Dec14, 2021 by organizing an essay writing competition on the topic '**Energy Efficient India**'.


Such competitions will bring awareness among students about the conservation of the energy.


Minutes of the meeting held on Jan 2, 2022 at 5:00 pm (online)

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: To review the programme organized to celebrate National Energy Conservation Day on Dec14, 2021


Summary:

Students enthusiastically participated in the essay competition. The science society team evaluated their essays. In their essays students came up with multiple suggestions to make our college and hence country energy efficient. Some of the prominent suggestions were -installing LED bulbs and tube lights, making insulation better in AC rooms, planning more events for energy conservation and encouraging staff and community to participate in such events, identifying situations where energy is being wasted and many other. Ms Sakshi, B.Com (Roll No 2105126) received first prize and Reema Kumari BEIED 3rd year received second prize.

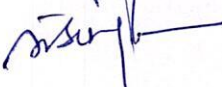
Minutes of the meeting held on Feb 2, 2022 at 5: pm (Online)

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: Organize Virtual Visit to Yamuna Biodiversity Park


It was decided to organize Yamuna Biodiversity park visit on Feb 14, 2022 in collaboration with Eco-Club of the college.


It was decided that Dr Bhupender will create a google classroom and Google meet link for conduct of the event. Dr Priya Khurana will make a summary of each session. Dr Indu Nashier will coordinate with volunteers and look after the smooth conduct. Dr Manisha Wadhwa will coordinate with guests and moderate session. Dr Nalini Singh convener Eco-club will give welcome address and Dr Manisha Wadhwa will give vote of thanks.

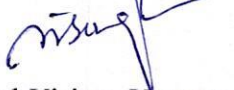
Minutes of the meeting held on Feb 23, 2022 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: 1. To review the Virtual Visit to Yamuna Biodiversity Park. 2. To plan an event for National Science Day

Summary: Students and teachers enthusiastically participated in the event on 14 Feb, 2022 a virtual visit to **Yamuna Biodiversity Park**. The resource persons Dr Faiyaz Ahmad Khudsar, Scientists In charge of the Park and Ms Preeti Vohra, Nature Education officer took us through the park using pictures, videos and presentation. It seemed as if we were actually in the park walking through it trails. After that our students had lot of questions on elephant apple, box bug, butterflies, adaptability of moth and diversity in the park and role of park in conserving biodiversity. We learnt that conservation of biodiversity is important for keeping alive the complex food chains and food web. The programme was conducted smoothly.


2. It was decided to organize a webinar on the occasion of the **National Science Day**, on 28 February, 2022 on theme Science in Ancient India with reference to understanding Nature of Science. The resource persons for the webinar will be Dr Mamta Singhal, Institute of Home Economics, University of Delhi and Dr Rakesh Kumar, Department of Education, (CIE) University of Delhi.


3 It was decided to organize a digital poster making competition on the occasion of the National Science Day. The theme of the competition will be '**Science in Indian Monuments**'. A poster will be circulated and entries will be invited for the same.


4. It was decided that Dr Bhupender will create a google classroom and Google meet link for conduct of the event. Dr Priya Khurana will get a poster designed and summary of each session. Dr Indu Nashier will coordinate with volunteers and look after the smooth conduct. Dr Manisha Wadhwa will coordinate with guests and the moderate session.

Minutes of the meeting held on March 5, 2022 at 2:00 pm in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: i) To review the events organized for the occasion of the National Science Day.

ii) To organize a clay modelling competition on the occasion of Women's day ie March 8, 2022 in collaboration with Eco-club.

iii) To organize a three day workshop on '**Inquiry in Science Classroom**' from March 14, 2022 to March 16, 2022

Summary: Dr Mamta Singhal, Institute of Home Economics, University of Delhi and Dr Rakesh Kumar, Department of Education, (CIE) University of Delhi were invited speakers for a webinar on the occasion of the **National Science Day**, on 28 February, 2022. The theme for the session was Science in Ancient India with reference to understanding Nature of Science. The webinar drew attention of students towards the fact that science has a culture of exploration, with inquisitive nature. Another significant point discussed was that science can't answer all questions. Indian views on science with reference to *Vaisheshika Nyaya* were discussed. Students enthusiastically participated and asked questions.

A digital poster making competition was also organized on the occasion of the National Science Day. The poster received were judged by the committee. The theme of the competition was '**Science in Indian Monuments**'. Students enthusiastically participated in the event and through their digital posters showed how Indian monuments were made scientifically centuries ago, even before the discoveries made in modern science. The following entries received prizes:

- 1st Prize: Ishika Jain, B.Com 1st year (Roll No 210145)
- 2nd Prize: Kajal Rajput, BEEd 3rd year
- 3rd Prize: Deepa, BEEd 1st year

3 A clay moulding competition on the occasion of Women's day i.e. March 8, 2022 will be organized in collaboration with Eco-club in the college lawns. In the competition student will design jewellery products using clay and other handicraft.


4 A three day workshop on '**Inquiry in Science Classroom**' will be organized from March 14, 2022 to March 16, 2022 (online, as it will be students' mid-semester break). A session on hands on activities will be organized by resource persons – Ms Anshumala Gupta and her team from Joy of Learning Foundation. The sessions will be the topic 'Water; The Wonder Liquid' and 'Human Circulatory System'.


5. A valedictory session on March 16, 2022 a discussion will be organized on the theme '**Role of Science and Technology in Society**'. The invited resource persons are Dr Subhash Chandra, Department of Education, University of Delhi and Ms Aparna Joshi, Gargi College, University of Delhi.

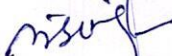
Minutes of the meeting held on March 29, 2022 at 12:00 noon in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: To review the events organized on Inquiry in Science Classroom from 14 to 16 March, 2022.

2 To review the clay modelling competition.

Summary:

The clay moulding competition on the occasion of Women's day ie March 8, 2022 was organized in collaboration with Eco-club. Students enthusiastically participated and created innovative jewellery designs. In the competition student designed jewellery products using clay and other handicraft. The following students received prizes:

- 1st Prize: Shristy Goswami, BEIED 1st year
- 2nd Prize: Bhumika, BEIED 3rd year
- 3rd Prize: Tisha, B.Com (Hons) 1st year


The three day workshop on '**Inquiry in Science Classroom**' was organized from March 14, 2022 to March 16, 2022. For the first two days hands on activities were organized by resource persons – Ms Anshumala Gupta and her team from Joy of Learning Foundation. The sessions were on the topic 'Water; The Wonder Liquid' and 'Human Circulatory System'. The session addressed many misconceptions of students like - You only get dehydrated when you sweat a lot; Eight glasses of water a day?, Drinking more water improves your skin; Drinking more water helps in weight loss; Sports drinks are better than water?; Clear urine means you're always properly hydrated; All arteries carry oxygenated blood; all veins carry de-oxygenated blood; Blood travels in one continuous loop around the body; Blood circulation involves only heart; De-oxygenated blood is blue in colour and when it comes in contact with oxygen it becomes red in colour; The session was informative, practical and engaging. The workshop encouraged students to think critically.


On March 16, 2022 a discussion was organized on the theme '**Role of Science and Technology in Society**'. The invited discussants were Dr Subhash Chandra, Department of Education, University of Delhi and Ms Aparna Joshi, Gargi College, University of Delhi. The session focussed on how knowledge is produced, distributed and utilised in any society and how it influences lives of people and vice versa i.e. how people and their demand influence research in science and technology. In both the events students participated, asked questions and performed activities to enhance their inquiry.


Minutes of the meeting held on July 26, 2022 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: 1 Students' Volunteers for Science Society

2 Budget of the Science Society

Students' Coordinators: Prerna Sharma (President) and Ritika (Vice President) will continue in this session too. The Facebook page of Science Society: <https://www.facebook.com/Aditi-Science-Society-111892350215383/?ref=bookmarks>

The budget was discussed and approved, attached herewith.

Minutes of the meeting held on Dec 21, 2022 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor)



Dr Indu Nashier (Co-Convenor)



Dr Priya Khurana (Member)



Dr Bhupinder Singh (Member)



Agenda: 1. To plan a workshop on Air Quality.

2. Creative art work on the occasion of Lohri, Pongal and Makar Sankranti

It was decided to organize a **Workshop on Air Quality** in collaboration with Lung Care Foundation under the aegis of Delhi Effective Education and Pedagogy Cluster (DEEPC) on Jan 11, 2023 in the Reading Hall of the college.

It was decided that Dr Bhupender will manage the library reading hall for cleanliness and setting up the projector. Dr Priya Khurana will get a poster designed and make a report of the session. Dr Indu Nashier will coordinate with volunteers and look after the refreshments. Dr Manisha Wadhwa will coordinate with guests and the moderate session.

It was decided that in collaboration with Eco Club, Aditi Mahavidyalaya, Lohri, Pongal and Makar Sankranti will be celebrated on Jan 13, 2023. The events will be organized by using on Rice powder, Art work, innovative Lohri Thali

Minutes of the meeting held on Jan 20, 2023 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor)  Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member)  Dr Bhupinder Singh (Member) 

Agenda: 1. To review the workshop on Air Quality and event on Lohri.

2. Visit to Yamuna Biodiversity park on Feb 2, 2023

3. Plan an event for International Day of Women and Girls in Science on Feb 11, 2023

A Workshop on Air Quality in collaboration with Lung Care Foundation under the aegis of Delhi Effective Education and Pedagogy Cluster on Jan 11, 2023 in the Reading Hall of the college was organized. Dr Mitali Raja, Project Director for Clean Air and Climate Action, Lung Care Foundation and Dr Anurag Saini from Cluster Innovation Centre were resource persons for the workshop. The resource persons shared the real time data of air pollution and how different activities are contributing to it. The session also discussed possible steps taken by individuals to reduce the air pollution. 92 students and 8 teachers attended the workshop.

In collaboration with Eco Club, Aditi Mahavidyalaya, Lohri, Pongal and Makar Sankranti was celebrated on Jan 13, 2023 where in students were invited to participate in the **events on Rice powder Art work, innovative Lohri Thali** using eco-friendly things, and handicrafts using groundnut shells, flowers and other decorative items.

Students will be visiting Yamuna Biodiversity Park on the occasion of the World Wetlands Day on Feb 2, 2023


It was decided to organize a webinar on celebration of **International Day of Women and Girls in Science** (as observed by the United Nations) on Feb 11, 2023. Prof Rambir Singh from the department of Horticulture, Aromatic and Medicinal Plants of the Mizoram Central University and Dr Shilpa Jain from the Department of Chemistry, Shivaji College, University of Delhi will be the invited speakers for the event.


It was decided that Dr Bhupender will create a google classroom and Google meet link for conduct of the event. Dr Priya Khurana will get a poster designed and summary of each session. Dr Indu Nashier will coordinate with volunteers and look after the smooth conduct. Dr Manisha Wadhwa will coordinate with guests and the moderate session.


Minutes of the meeting held on Feb 20, 2023 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: 1. To review the event for International Day of Women and Girls in Science

2. To review the Visit to Yamuna Biodiversity park

3. To plan an event on National Science Day on Feb 28, 2023

Summary: Celebration of **International Day of Women and Girls in Science** (as observed by the United Nations) on Feb 11, 2023 was organized with a webinar on the theme. The objective is to promote the full and equal access and participation of Women in Science, Technology, Engineering and Mathematics (STEM). Prof Rambir Singh from the department of Horticulture, Aromatic and Medicinal Plants of the Mizoram Central University and Dr Shilpa Jain from the Department of Chemistry, Shivaji College, University of Delhi were the invited speakers for the event. The session focussed on critical role of women and girls in science and technology. Students were inspired by highlighting achievements of famous women scientists.

On Feb 2, 2023 a group of 37 students of BEIEd Ist year from the Science Society visited **Yamuna Biodiversity Park** along with Dr Priya Khurana and Dr Gomti on the occasion of the **World Wetlands Day 2023**. The list of students is: Muskan, Vandana, Ruby, Aarchi, Airam, Kaushiki, Yukti, Mohini, Pritika, Monika, Sargam, Tammanna, Ekta Singh, Vanshika, Nivedita Anand, Khushi Mishra, Shweta, Divya, Roshni, Payal, Simran Kumari, Nitya, Bulbul, Tannu kashyap, Lavanya, Khyati, Bhoomika Bhatt, Gunjan Sharma, Deepika tanwar, Nashra, Shifa Malik, Laxmi Kumari, Isha, Sandhya Kumari, Shivani Mishra, Nashra, and Shifa Malik. The visit to the Yamuna Biodiversity Park nature reserve of Delhi, provided students with an opportunity to understand the need for preserving a network of wetlands, grasslands, and forest communities. Students visited Yamuna Biodiversity Park's fully developed ecosystem and experienced the living laboratory of nature. Students interacted with experts on the occasion and enhanced about the importance of Wetlands for people and the planet.


On the occasion of the **National Science Day, on 28 February, 2023 a lecture will be organized** in the blended mode. Dr Sunita Sahrawat from the Department of Education, G.D. Goneka University will be the as invited speaker for a webinar.


It was decided that Dr Indu Nashier will take care of refreshments, Dr Bhupender Singh will take care of arrangements of Hall, speaker, laboratories (workshops), laptop and projector, Dr Priya Khurana will take care of pictures and reports of each session. Dr Anita Beniwal will support in coordination with guest and smooth organization of the event.

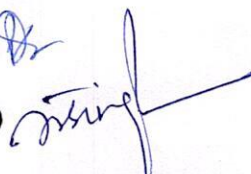
Minutes of the meeting held on March 2, 2023 at 11:45 am in the Biology Lab

Members present

Dr Manisha Wadhwa (Convenor) 

Dr Indu Nashier (Co-Convenor) 

Dr Priya Khurana (Member) 

Dr Bhupinder Singh (Member) 

Agenda: To review the event on 28 February, 2023, on National Science Day

Summary: A lecture was organized in the blended mode on 28 February, 2023, on National Science Day. Dr Sunita Sahrawat from the Department of Education, G.D. Goneka University was the invited speaker for a webinar. About 90 students and 10 teachers attended the event in the college reading hall. The theme for the session was Modern Science and Technology in light of Bhagavad Gita: An Educational Perspective. The webinar drew attention of students towards the fact that Bhagavad Gita is not the Science of a particular community – it is the Universal Science of the soul. It is a science that compels us to embrace divinity and divine qualities. All other bodies of knowledge are subject to change but this body of knowledge contained in Bhagavad Gita is timeless – eternal. The resource person discussed how the Law of conservation of mass, i.e. **the mass can neither be created nor destroyed but is transformed from one form to another** and the Newton's third law of motion, i.e., **Every action has equal and opposite reaction** is applicable to us. Everyone appreciated the event.