

Shiksha

Sanskar

Swavalamban



Shiksha Sopan

An Initiative of IIT Community for social upliftment

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Newsletter March 2022

Dear Readers, greeting from the Shiksha Sopan family. As you know that Shiksha Sopan always focused on the development of educational environment in the society and for that we are doing regular practices which helps to uplift the level of education. In February month, several activities were planned and performed. We would like to share our experiences and work details with you.

Central programs

Short Term Residential Camp

A 6-day Short term residential camp was organized at Sopan Ashram from 25th February to 2nd March, 2022. Teachers registered themselves on Shiksha Sopan website and showed their interest to join camp at Sopan Ashram. We had selected 23 physics PGTs for the camp, 19 teachers turned up to attend the residential workshop. This time we chose the topic of Optics (Diffraction and Interference) for the camp.

The inauguration was done by lighting the lamp on 25th February in presence of Prof. Sameer Khandekar and Prof. Pankaj Arvind Apte, Department of Chemical Engineering, IIT Kanpur. Prof Khandekar talks about general phenomenon related to optics which we had seen in day to day life and motivated them to learn from nature. Prof. Apte also wished them and encourage them to do exercise daily. Saraswati Vandana and Welcome song were done by the students of Sopan Ashram Evening center under supervision of Mr. Vinay K Mishra.

Every morning the sessions were started by doing Yoga under the instructions of Prof. Pankaj Apte. He started the yoga by prarthana and taught the correct positions of various exercises. All participants participated in this class and felt the energy of yoga.

The first academic class on optics was by Dr. H. C. Verma. He started his class from the very basic and then come to wave optics. He taught and demonstrated diffraction-interference phenomenon using single slit, double slit and gratings. Everyone was surprised to see the diffraction and interference pattern using shaving razor blade. A total of 6 lectures were delivered by Dr. Verma in this short term course. These lectures will be available on his YouTube channel shortly.



Three popular talks on Optics were delivered by eminent IITK faculty members. Prof. Saurabh M Tripathi, Department of Physics - He calculated intensity of light after reflection -refraction and proved Snell's law. Prof. Sameer Khandekar, Head Department of Mechanical Engg – He told about heat transfer mode, specially radiation and how it is related to Optics. Prof. Harshwardhan Wanare, Head, Department of Physics, IITK - He talked about very basic phenomenon of Optics in daily life. He also emphasized on class room teaching methodologies and encouraged the teachers



Mr. Amit K Bajpai gave introduction of Shiksha Sopan, Mr. Vinay K Mishra and student of SAEC gave wonderful experimental demonstration session, hand-made microscope was prepared by all the teachers under guidance of Mr. Ranjit Kumar, Mr. Yogesh K Jha showed outdoor experiments and Ms. Neha Katiyar took long experiments session.

The whole workshop was fully packed with energetic sessions. Some participated teachers also got the opportunity to conduct wonderful and interactive sessions.

Amrit Mohatsav

Shiksha Sopan organized a talk on "Glorious history of Kanpur" under the banner of Amrit Mahotsav on 27th February 2022 (Sunday) at Sopan Ashram. Mr. Ajay Trivedi, Deputy Director, Yuva Kalyan Vibhag, UP Government was the key speaker. Other renowned personality of Kanpur Dr. H. C. Verma, Shree Angad Singh, Mrs. Pooja Awasthi, Mr. Gopal Khanna, Dr. O. P. Gupta were present. All the centers of Sopan participated in it. The programme started with a song by Ranjan Ji "Nirmano ke pawan yug me...". Mr. Ajay Trivedi gave lots of wonderful and exciting information about Kanpur. Some of the information were totally new to the audience. A total of 300 people attended this event.



Dr. H. C. Verma gave a memento to Mr. Trivedi and lots of wishes to him. Everyone was amazed to listen about the glorious history of Kanpur. Mr. Amit K Bajpai anchored and coordinated the session.

Celebrating Basant Panchami

- On February 5th, BEC celebrated Basant Panchami. On this day, we remember the goddess of knowledge Maa Saraswati. Shiksha Sopan, working on providing quality education to those unable to afford it, thus share a special bond with Devi Saraswati. BEC volunteers celebrated this day with the students at their homes and ask every student recite the prayer of Saraswati Maa before starting their studies.
- On the occasion of Basant Panchami, the Library wreath the flower on portrait of Saraswati Maa. Students made cards and performed Saraswati Vandana in the presence of all library members.

Tribute to Lata Mangaeshkar

- Last month, our country lost our Swar kokila, Ms. Lata Mangaeshkar. Lata Di was the singer who got respect from all over the world. Lata di was suffering from illness, and on 6th February, she took her last breath. Not only the country but the entire world felt sad due to sudden demise of Lata di. BEC remembered her and her songs which are hard to be erased from the memory of the people.
- It was a huge loss to the country, so Library gave tribute to her and remembered her songs.

Sopan Anaupacharik Shikshan Kendra (SASK)

Voting awareness Program

As we know, elections was in the month of February. SASK conducted a voting awareness program. The motive of this program was to make people aware of using their vote to form a strong government. In this program, SASK coordinator asked students to make their parents and neighbours aware about the importance of voting. They also made slogan placards like " Pahle Matdan fir Jalpan" and used them during the rally.



Reopen of academic classes

Due to a Covid outbreak in January, the center was closed, so from 22nd February, classes were reopened after the situation came to the normal. Children were coming at the center, and academic activities started again in full swing.

Rashtriya Vigyan Diwas

Science is the only subject which is present in our surroundings. In our daily life, we come across science at many points. Every year on 28th February, we celebrate "Vigyan Diwas".It is celebrated to commemorate discovery of Raman Effect. SASK coordinator Ms. Seema Verma conducted a science quiz for the students. The center celebrated science day with full enthusiasm.

The winners of the quiz are -

First : Deepali, Class 8th
Second: Divya, Class 8th and
Third: Ankit Kushwaha, Class 7th

Along with quiz, SASK also conducted a science fair in which children showed various science experiments and explained the science behind it.



Baal Akhbaar

In the February month, the children prepared the edition of Baal Akhbar. This Akhbar consists many columns and helps children in upgrading their skills in thinking and writing. Children of SASK wrote articles for the Akhbaar in which Shraddha Verma of class 6th wrote about the celebration of Saraswati Pooja. Dipali wrote a column where she covered the story of Chhatrapati Shivaji's life. Other articles were related to science day, numbers, and the Paheli(puzzles).



Barasirohi Evening center (BEC)

Resuming of offline classes

Due to the 2nd Covid outbreak, the center was physically closed but running online. On 25th February, BEC resumed its offline classes because a little impact of Covid was left. So all the children were called to the center along with the volunteers.

Visiting of IITK Alumni

On 26th February, one of the IITK alumni and Sopan Ex- Volunteers Mr. Ravi visited the BEC center. Mr. Ravi was an M.Tech student of IITK and currently working in the Bank of America. Mr. Ravi visited after a very long time. He interacted with the children and was delighted memorising his old days. He also talked about the founder of Arya Samaj "Maharshi Daya Nand Saraswati," with the children.



Sopan Library

As we know, 14th February is remembered as Black day in Indian history because on 14th February 2019, terrorists attacked a convoy of CRPF, in which many soldiers were martyred. So the Library coordinator Mrs. Pushpa Tripathi and the members gave tribute to them.

SOpan OutReach - Majlis (SOORMA) – January Report

Two sessions were conducted in the month of January, Details are given below

**First Online session: Date: 8th January, 2022, Conducted by Mr. Ravindra Godbole
Attended by: 15 teachers**

Godbole Sir took the session on toy-making . He took up the specific case of automata toys which is a kit having few things like magnet straws, corrugated paper. Using this kit, he showed how the children can use their creativity to build up a story, then also animate it.

**Second Online session: Date: 30th January, 2022, Conducted by Mr. Abhishek Dass
Attended by: 17 teachers**

Abhishek Sir took the session in which he stressed that apart from teaching the concepts; the teaching methodologies, pedagogical approaches and frameworks used are equally important within a classroom. He took one such framework called "see-think-wonder" . He had asked everyone to be ready with an ice ball which on his advise we made by freezing water in a balloon. He made everyone observe the ice ball very carefully. We looked at the color, shape, shining outer surface, cloudiness inside, melting rate, behavior in laser light and sunlight, patterns of air trapped etc. which prompted towards buoyancy, density, conduction of heat, etc. A simple ice ball initiated a lot of discussion on various concepts of science. Everyone gave their own inputs. The ice ball seemed to be magical and taught everyone the power of observation. "See-think-Wonder" seemed a practical and doable method of inculcating the spirit of scientific inquiry among the children.

Web site : For more details please visit www.shiksha-sopan.org

How to donate: [Shiksha Sopan](#)

(b) You can write cheques/draft for donations in the name of "Shiksha Sopan" payable at Kanpur and send to the address given below.

(c) Online transfer can be made in State Bank of India, IITKanpur branch. Account No. **10426002488** , Account name "Shiksha Sopan", IFSC code **SBIN0001161**

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