

Shiksha

Sanskar

Swavalamban

# Shiksha Sopan

An Initiative of IIT Community for social upliftment

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Newsletter March 2021



We hope that you and your family are fine and safe. Shiksha Sopan prays for a Happy, and Joyful year for all of us. The previous year was somehow very tough for the whole world, our work had to reoriented towards virtual events. We hope that this year we can do our work more efficiently utilizing our newly acquired skills of virtual events and our strength of physical sessions. Shiksha Sopan is always moving towards its goal to fulfill the need of the underprivileged society, especially the education.

## Central programs at Sopan Ashram

In the month of February, Shiksha Sopan did a lot of work. The two major events done by Shiksha Sopan were (a) Two days residential camp and (b) Science Fair. Both the programs were coordinated by Mr. Amit Kumar Bajpai and the core team of Shiksha Sopan under the supervision of Dr. H C Verma

### *Two-day residential camp*

A two-day residential camp was organized on 19<sup>th</sup>-20<sup>th</sup> February for the students of Jalaun district. This was the first residential camp organized at Sopan Ashram after the Pandemic. Started in March 2020. We looked carefully at all the safety measures of Covid 19 in this camp. There were 15 participant students and three accompanying teachers from the Jalaun district who attended the camp. These students were the winners of the competition "KAUN BANEGA NANHA KALAM" and were chosen from approx 100,000 students from variety of examination and activities conducted by the Basic Education Department of the district. These students stayed at Sopan Ashram in which they got experimental exposure and learned practical things related to mathematics and science. There were various sessions conducted in these two days like demo session, lecture by Dr. H C Verma, experimental sessions, etc . The most attractive was a night session "Bharat ko Jano" which was successfully conducted by Mr Yogesh Kumar Jha on self designed three dimensional map of India. The Map of India was shining in the night and looking very attractive to each one. Mr. Bhagwat Patel, District Inspector of School, also came, talked with students and volunteers of Sopan and also felicitated Verma sir.



## Science Fair on National Science day

Science is not only a subject but it exists everywhere in our surroundings and is present in our daily life. It is indeed difficult to imagine human life without directly using Science and its outspring Technology. The whole country celebrates 28th February as the National Science Day. This is because one of the most famous scientists Sir C V Raman gave the theory "Raman Effect" on this day of the year 1928. Shiksha Sopan in collaboration with SGM-IAPT ANVESHKA, Kanpur celebrated this day and organized a Science fair at Sopan Ashram, Nankari, IIT Kanpur. Science Cell of Shiksha Sopan gave training to the students in making experiments through raw materials, demonstrating to the audience, probing the audience minds and other aspects.



This fair was inaugurated by Ex MLA of Kalyanpur Mr. Satish Nigam together with Dr. H. C. Verma. Other dignitaries present there were Dr. Anurag Tripathi (Faculty, IIT Kanpur), Mr. R. N. Wadalkar (Principal, K V IIT Kanpur), Dr. Anita Singh (Faculty, Kanpur Vidya Mandir), Mr. Avanish Tripathi (Senior, consultant, MHRD), Mr. Chandan Shukla (Physics Teacher, Jaipuria School), Mr. Vaibhav Varun (an Aviation Entrepreneur) and others. This fair had four major sections as described below.



### A Poster Gallery

Students put up an art gallery where various posters on Sir CV Raman were displayed. This was placed next to the Sopan Ashram Entrance so that before going into the main Mela site, the visitors should get the right perspective of Science day. The posters were all hand written with beautiful drawings. The first section showed Dr Raman's early education with his family background. Then his short tenure as Accounts Officer and his entry into research



field through Indian Association for Cultivation of Science at Kolkata. The next section was on the great Raman Effect discovery for which the seed idea came through observing the blue colour of sea water while he was on the ship returning from London back to India.

The poster exhibition was led by Ms Neha Katiyar, MSc and an dedicated worker of Shiksha Sopan.



## Experiments in Science

Children presented short but eye catching experiments to explain some of the basic principles of Science. The presenter students were bubbling with confidence and were prompting the audience to get deeper into it by asking them questions. The students were mostly from Std 8-10 level with some senior students. People were amazed to see such an energetic presentation.



## Puzzles

Well designed Activity based puzzles related to Mathematics and Science are great attraction for people of all age groups. Our Science Fair had a number of such puzzles. Students were describing the puzzles and inviting the audience to solve these. Most of the time people could not solve it and then our presenter child would show them how to solve it. These tables drew lots of attraction and helped igniting thinking cells of the minds.

The puzzles were based on Geometry, rearrangement of certain objects with certain restrictions, activities based on Center of Mass, Principles of electric circuits and so on.



## Making Newspaper Caps

This pandal was a great hit, especially for young children visiting the Science Fair. Our volunteers were training the visitors to make a cap by cutting and folding newspapers. Hundreds of students made their caps under guidance of our students. Not only they used these caps to protect from the intense sun during the fair, they were seen with these caps on the following days too. During cap making, several concepts of geometry were told to them.



## **Covid Safety Precautions**

Though the Covid cases had considerably gone down in Kanpur in the month of February, we were conscious about this issue.

1. Only people with mask were allowed to enter. This was well publicized before hand and all the visitors followed this rule.
2. For each visitor thermal screening was done at the entrance and the temperature was noted with the name was noted in a register. No person was found with raised temperature.
3. Sanitizers were put at different places at the site and visitors were encouraged to use it frequently.
4. It was natural that during the Mela visit with such exciting stalls, masks came down from the face. Several of our volunteers were deputed to keep a watch and remind such people to put the mask on.
5. There were 694 visitors as recorded in the register. Fresh sugarcane juice was served to all visitors of the Mela. Mud- Kulhad were used which were bought several days before the event. They were disposed after use by one persons. Sugarcanes were grown locally at Ashram and the machine to extract juice was installed at the site. No ice was used.

## **Sopan Anaupacharik Shikshan Kendra (SASK)**

In the month of February, SASK came up with new things for imparting quality education for the students. Due to lack of phone facilities in the houses of many, online mode is effective for much lesser number of students. Community classes in open areas were continued and limited number of students were allowed to come at the center. SASK did various activities like special Hindi class, Maths learning model etc.

### ***Special Hindi Class***

As we know Hindi is the most spoken language in India and has the status of Rajbhasha. Though all of us use it for daily communication, often grammatical correctness is not ensured. Also Hindi has vast treasure of words which many of us do not know. SASK started a one-week Special Hindi classes for students of class 1st to 5th. This class was started on 3rd February. The volunteers of SASK Ms. Sunita and Ms. Rubi gave these classes. She told the students about how the words and sentences are correctly formed. This class was even more fruitful as Ms. Seema Verma made learning teaching material for the students.





## ***BASANT PANCHAMI Celebration***

Education is a very important thing for everyone's life. Everyone should be educated to make only his/her life better but also to become an asset to the society. In India, we people celebrate Basant Panchami to get divine power to get education effectively in everyone's life. On 16th February, SASK celebrated this day with full of passion in which they worshiped the Goddess of knowledge Maa Saraswati. On that day volunteers and students did a wreath on the photo of Goddess Saraswati and asked for a boon for knowledge.



## ***Mathematics with working model***

Mathematics is the subject in which students have a fear. So to remove this fear and to create interest in the students towards Maths, SASK coordinator Seema Verma introduced a new method of teaching Mathematics "Mathematics with models". The second model was prepared in February in such a way that students can tell the square of any number very easily without doing much calculations. Students liked this model and this method of teaching.



## ***PRAVAH : BAAL AKHBAAR***

As we mentioned in a previous newsletter that SASK started a children's newspaper named PRAVAH a BAAL AKHBAR. Children of SASK collected various zestful knowledge and put in it. SASK decided to publish this Akhbar every month. The second edition of this Akhbar contains knowledgeable and social information like budget 2021, the effect of using Plastic, etc. This Akhbar is prepared by children of SASK themselves. It also includes various types of brainstorming things like "Pahchano to jane" asked by Mr. Arjun Kumar(7th). Sonam (8th) wrote an article on "Why ants move in a single line" in the Chatpata Vigyan column, and much more.



Students are giving their time for this creative work and want to put more knowledge into it. For this, they read variety of books, newspapers, current affairs news and also interact with more people to collect variety of knowledge. In this way the AKHBAAR preparation also teaches them much more even before publishing.

## **National Science Day**

On 28 February, SASK children visited at Sopan Ashram with the volunteers for Science fair. On that day children saw many science related experiments in which they gained and enjoyed so much. But the main attraction was the "Topi by Akhbar" activity. They enjoyed making the Topies and wear these for hours. During the process, they also learnt about the various angles, shapes etc.



SASK Volunteers also supported in collecting feedbacks from the visitors.

## **Barasirohi Evening center(BEC)**

February month was somehow busy for every volunteers and child of BEC. There were various activities done in this month which are given below.

### **Basant Panchmi**

On 16<sup>th</sup> February, BEC celebrated Basant Panchami. Volunteers wreath on the photo of Saraswati Maa. Children sung the song " है शारदे माँ ". Coordinator of BEC, Ms. Geeta Ji emphasized the value of education in our life. Two students of BEC Ms. Divyanshi and Ms. Khushi also spoke about Basant Panchami.



### **Homage to Martyrs of Pulwama Attack**

14<sup>th</sup> February 2019 was the day on which 40 of our soldiers were killed in the terrorist attack at Pulwama. Our country gives tribute to these martyrs on this day and call 14<sup>th</sup> February as a black day. BEC volunteers and children gave tribute to these soldiers and remembered their sacrifice for our country.

### **Ravidas Jayanti**

BEC celebrated 27<sup>th</sup> February as Sant Ravidas Jayanti. Ravidas Ji was a true saint. He had given a variety of spiritual and social messages through his great writings of poetry to his lovers, followers, and people to reform their minds and show their boundless love towards God. BEC coordinator Ms. Geeta Ji gave a speech and told about why we celebrate Ravidas Jayanti and also told about his life. She also reenforced the message of Sant Ravidas Ji that "No one becomes great or insignificant due to birth but acquires these by his work कोई जन्म से छोटा बड़ा नहीं होता, बल्कि कर्म से होता है"

### **Science fair**

25 students along with BEC volunteers Ms. Geeta Ji, Ms. Kshma Ji and Mr. Pushpendra Ji visited this fair and learned so many things related to science. Mr. Pushpendra gave his time on the main gate of Sopan Ashram taking temperatures of visitors before entering the campus of Sopan Ashram. They have also enjoyed the natural environment of Sopan Ashram. It was a whole day fair in which various type of experiments were shown to the audience.



## **Sopan Library**

Sopan Library at Community Center, Type One, IIT Kanpur is a place where one not only gets books to read but also gets enriched with Nationalistic and Social feelings. Mrs Pushpa Tripathi and her team at Sopan Library arranges discussion sessions for this purpose. On 11th February, Library members had such a session on Pandit Deen Dayal Upadhyay. Pandit Deen Dayal Upadhyay was a great thinker and had given very useful models for social development and economy in Indian context. Library also celebrated Basant Panchami with its members and students.

## **Sopan Ashram Evening Center (SAEC)**

In the February month, SAEC children and volunteers were engaged in preparation for the science fair. They all were coming to the center for learning the experiments and activities on a regular basis. And they wonderfully performed the experiments in the science fair at Sopan Ashram. Other than this SAEC also did various activities. A glimpse of all the activities is mentioned below and the details will be in SAEC monthly activity report "SAMVAD"

- Celebration of Basant Panchami on 16<sup>th</sup> February .
- Students of SAEC prepared a welcome song for the two-day residential camp of "Nanhe Kalam" which was sung on 19<sup>th</sup> February in the inauguration ceremony.
- Completion of Gyandaiyani Open Air Lab (GOAL) drawing project on 22<sup>nd</sup> February by one of the bright students of SAEC Ms. Avani Sharma.
- Participation of SAEC students in National Science Fair for which they were awarded the certificates.

## **Science Cell**

February month was very busy for the Science cell. As you read on the second page of this newsletter, Science cell was engaged in two major activities in this month. One activity was two-day residential camp. In this camp, the science team showed various experiments related to science to the participants. The second activity was Science Fair. Science cell volunteers were engaged in preparing the SAEC students for demonstrating the experiments. Science cell worked hard to make these activities successful.

They trained the students for Science Fair. Ten days exclusive training camp was held at Sopan Ashram in evenings. Students learnt handling of instruments, dialog delivery during fair, making models etc. During this training they also learned to handle variety of machines like central drill machine, cutter machine, wire winding machine etc in supervision of Science cell volunteers. The science cell did a wonderful work to create a Scientific atmosphere and scientific attitude among the students.

## Revision Course of Class 10 at IITK MookIT Website

Due to closing of physical meets at SAEC due to Covid in the session 2020-21, our Std 10 students could not prepare well for the upcoming Board Examination. Shiksha Sopan specially planned for a one month revision course for Science and Mathematics with the help of Centre for Continuing Education (CCE), IIT Kanpur. This is specially for Hindi medium of class 10<sup>th</sup> UP board students and is totally free.

The lectures are being prepared and recorded at Sopan Ashram. If anyone wants to watch the lectures and revise the course of class 10<sup>th</sup> he/she can register at the website - [up10.hcverma.in](http://up10.hcverma.in). Registered students can also ask their doubts on the Forum, and discuss with the resource persons as well as with other registered students.

The mathematics lectures are being recorded by Dr. H. C. Verma and Physics related lectures by Dr. Anita Singh, Kanpur Vidya Mandir. Chemistry related Lectures are being recorded by a retired experienced teacher of Jugal Devi Saraswati Vidya Mandir. We are in the process of looking for lectures related to Biology.

The Course will start in March, and will go on for a month or more.

अंधकार को क्यों धिक्कारे, अच्छा हैं एक दीप जलायें

**Web site** : For more details please visit [www.shiksha-sopan.org](http://www.shiksha-sopan.org)

**How to donate:** *Shiksha Sopan*

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