

Shiksha

Sanskar

Swavalamban



Shiksha Sopan

An Initiative of IIT Community for social upliftment

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Newsletter December 2021

Dear Readers, Greeting from the Shiksha Sopan family. November 2021 was a month of celebration, not only for Shiksha Sopan, but for whole of India. The celebration of Lord Ram returning to Ayodhya after 14 years of exile. In tune with this, Shiksha Sopan too had reasons to do a grand celebration Dr. H. C. Verma getting the Padma Shree medal from Honorable President, bringing out the potential of Sweet Jalebi in leaning diverse science topics, adding a new project SOORMA to the activities of Shiksha Sopan and many more. Indeed the regular activities at different centers continued with great joy of Off-line mode.

Central programs

Achievements of Sopan Family

As we are all aware, the patron and academic guide of Shiksha Sopan, Dr. H. C. Verma received Padma Shree award from the Honorable President of India on 8th November. It was a proud moment for all persons directly or indirectly associated with Dr. H C Verma. Dr. Verma got this award due to his contribution to the field of education. Apart from providing free education to the children he is focusing on experiment-based classroom teaching. He has designed hundreds of new experiments having negligible materials cost, connecting science to the life. Sopan's family congratulates him on this great achievement. Verma Sir always encourages to work for the society and help others. Whole of his activities is tuned with this motto. It was a big achievement for all of us as Shiksha Sopan was talked about prominently and got recognized at the National level.



Jalebi Science at First Sunday Club (FSC)

First Sunday Club (FSC) is one of our most awaited activity that we perform every month in collaboration with SGM-IAPT Anveshika. Teachers from different places, even far away from Sopan Ashram, came to attend FSC on 14th November, 2021. It was a special surprise for the participating teacher as Shiksha Sopan and Anveshika team had arranged a Jalebi wala to make jalebi in front of the audience teachers and whole game was to explore science learning from Jalebi. Gathering of teachers started at Sopan Ashram from morning. With around 35 teachers present, the FSC started at sharp 10AM. Mr. Amit K Bajpai, welcomed all teachers including Verma sir and told them about the whole programme.

Dr. Verma emphasized that Science is present everywhere and asked the teachers to look at the jalebi making with Science point of view. The teachers observed each and every moment of jalebi making process, to explore how Physics and other

Science topics can be better understood from Jalebi. Some of the lady and gent teachers also tried to make jalebi with their own hands. Soon they started talking of Physics laws involved during the various steps of the process of jalebi making. And all the discussion taking place while eating and enjoying the sweetness of Jalebi. The whole atmosphere of Sopan Ashram was looking very energetic and lovely. After this, the teachers gathered in the classroom and Dr. Verma asked their observations starting from making batter from Maida. Variety of Physics concepts as well as biology and chemistry concepts like thermodynamics, surface tension, development of yeast, chemical bonding with maida and water, diffusion, osmosis, colour change etc. were discussed. The whole session was completed with full of joy and great academic learning. Prof. Verma told them we should involve these type of common place and interesting examples with students time to time so that students understand Science from the activities, nature, and learning by doing.



Sopan Ashram Visit by BTC students

Sopan Ashram is taking shape as Science Tourism center and the craze among students, teachers as well as general audience is increasing day by day. Sopan Ashram is having very attractive, knowledge rich, creative models inside the labs and also in the open area of the campus.

Sopan Ashram team always tries to do something new for the visitors. This time BTC students of DIET, Narwal came in three groups from 16th to 18th November. In each of the groups, around 40 students and their teachers visited. This time we have planned to open a ceiling fan, an electric iron and an LED bulb, one of each day and connect science to life. The theme of the event is JOD and TOD.

On the first day, we called an electrician Mr. Tiwari to open the fan in front of the audience. His first advise was to take proper care to avoid shock. He opened the fan and explained the construction of the coils, how to connect the inner and outer coils, how to check fault in a fan, etc. Students asked variety of questions to Tiwari ji. Dr. H. C. Verma answered some of the questions about the Physics of AC motors and Tiwari ji handled the rest. Mrs. Rekha Srivastava, Principal, DIET was present during the session and commented that this is the ideal training of teachers. After this our team showed the Sopan lab to the students. On the second day, our team member Mr. Yogesh K Jha, opened an electric iron in front of the audience. He explained many things related to its parts and their working. It was a great experience for everyone to know the internal structure and working of an instrument they use everyday. On the third day, we opened an LED bulb. Mr. Ranjit gave wonderful session to the students.



Short TERM RESidential Course at Sopan Ashram (STERECSA)

Shiksha Sopan has started the program of short term (6 day) courses on a particular topic of Physics to develop deep understanding and clarity in concepts. Under this series, a course was conducted on Rotational Dynamics from 20th to 25th November, 2021 at Sopan Ashram. We had selected 10 Physics teachers from different states of India. These teachers registered themselves on our website (www.shiksha-sopan.org) for this course. The workshop started by lighting the lamp in front of Maa Saraswati by Dr. H. C. Verma, Mrs. Pragya Nopany and some of the participants. Mrs. Pragya Nopany, coordinator, BVN-IAPT Anveshika and one of the most senior resource persons of our team was another resource person of the workshop. Mrs Nopany also gave three demonstration sessions during the workshop.

Dr. Manish Kapoor, Associate Professor, Christ Church College, Kanpur gave one session on problem solving related to Rotational Dynamics. Dr. H. C. Verma gave five lectures of about 1.5 hr, one per day, on this topic. During the lecture, he used several short experiments to explain

the concepts. Many other sessions like experiments, activities, open house and informal discussion sessions were also conducted during the workshop. Teachers were highly inspired by all the sessions. Everyone said thanks to Verma sir, Pragya mam and Sopan team for the arrangements and academic enrichment. The next STERECSA will be on Interference and Diffraction will be held from 25th February to 2nd March, 2022. Interested PGT Physics teachers can register at www.hcverma.in/optics



New Initiative (SOORMA)

In the month of November, a new initiative named SOORMA (Sopan Outreach - Majlis) was launched. The project came after discussions in the executive committee members. Dr. H. C. Verma and Dr Sameer Khandekar proposed to start the SOORMA initiative in which science teachers from any place in India can form a group and have meetings to discuss science concepts. It is a completely self-supported, independent activity. Mrs. Smita Fangariya, Head of the Department of Physics, Amity International School, Noida is chosen as the Coordinator of SOORMA. She has formed such a group in NCR and is conducting the sessions online as well as offline.

- ❖ The first SOORMA program of November was conducted online on 13th at 4:30 - 5:30 pm, in which Mr. Nani Gopal Mondal from West Bengal (WB) was the resource person and 12 teachers from Delhi-Noida attended the session. In this online session, Mr. Mondal discussed several experiments related to pressure, surface tension etc. Teachers appreciated his presentation.
- ❖ The next SOORMA program was done offline on 28th November from 10:30 AM to 1:30 PM in which resource persons were Ms. Smita Fangariya and Ms. Sakshi Malik.

10 teachers were present. This program was conducted by Ms. Smita Fangariya ji. In this session, she discussed many experiments related to buoyancy, and measurement of atmospheric pressure using a syringe. Participants also made manometers in presence of the resource persons.



Deepawali Celebration by Centers

Deepawali is a festival of light. On this day we all light Diyas in our houses. Deepawali tells us that we should always try to be a like light in other's life. Shiksha Sopan is working and becoming the light of life for children on this theme by providing quality Education without any fee.

On 4th November Shiksha Sopan Anaupcharik Shikshan Kendra (SASK) celebrated this festival with the same motto. SASK coordinator Miss Seema Verma conducted

a Rangoli competition. In this competition, many children took part and made beautiful Rangolis. The judgment was made online by Mrs Pragya Khandekar. As per the viewers, the competition was very tough because everyone made beautiful Rangolis. It was very hard for Mrs Khandekar to select Rangolis for the prizes. The list of the winners is given below -

Gungun Class-5 (First Prize), Shreya and Manshi Class-5 (Second Prize), Sonam Class-7(Third Prize), Shraddha Class-6 (Consolation Prize)
Arjun Class-8

Barasirohi Evening Center celebrated Deepawali at the house of its coordinator Geeta ji. Together with lighting, Geeta ji also educated children about the importance of Deepawali

On the occasion of Deepawali, Sopan Ashram Evening Center conducted events of Matka coloring and making Diya. These activities was supervised and guided by one of our vintage resource Miss Avni Sharma. These activities included making of cash envelop also.



Sopan library celebrated Deepawali with full of happiness and joy. On this day all members greeted each other and had sweets.

Baal Diwas Celebration by centers

On the occasion of our first prime minister Pt. Jawahar Lal Nehru's Birthday, 14th November we celebrate Baal Diwas because Chacha Nehru liked the children most. This year SASK celebrated this day by conducting many activities. In the beginning Miss Seema Verma told the life story of Chacha Nehru. After that various activities for the children started. For class 3rd to 5th Arm Fight (Panje Ladaao) was organized. For class 6th to 8th, Balance the glass and Building of glass activities were done. There was also a quiz competition which was based on the life of Chacha Nehru.

The list of winners is as follows –

Arm Fight– 1st -Palak(Class-5), 2nd -Mayank (Class-4), 3rd - Mohan (Class-3)

Building of glass– 1st -Divya (Class-8), 2nd -Ajeet (Class-7)

Quiz Competition – 1st– Divya & Deepali 2nd–Ankit & Sachin, 3rd– Sonam & Sradha



Barasirohi Evening Center also celebrated Baal Diwas by doing several activities.

SAEC Coordinator, Mrs. Anupama Sharma, distributed stationary at the center on the occasion of children's day. These stationaries were donated by our well-wisher Mr. Rishikesh Vibhute and his wife Mrs. Sharayu Vibhute.



On Children's day Mrs Pushpa Tripathi told everyone about the importance of the day and also told them why we celebrated this day. At Sopan libraries in the celebration Alka danced, Shipraji recited a self-written poem, one of alumina Mr. Rohit shared his experience and learning got from Shiksha Sopan. At the end Priti, Suneel and Ajay recited poems and expressed their views on Baldiwas.

Baal Pravah Akhbaar by SASK

Continuing their monthly activity of making a news report by children, this month Baal Akhbaar was released on 30th November. This includes articles, drawing and poems. All the Akhbaar was mainly written by children of SASK. The main aim to release this Akhbaar is to increase the writing skills and create the thought process. The November issue of Baal Akhbaar contained a very rich content. Ms. Deepali of class 8th presented the overview of Deepawali celebration in which she wrote about the activities organized on that day. Shreya of class 5th wrote a poem "Deepon ka tyohaar Deepawali". Sonam of class 8th gave information of

Triangles in yoga column, Lalit of class 7th introduced the internal parts of our body, Ankit of class 7th shared the views on 14th November celebration which was followed by the column "Hamare Perna Hamare Strot". In this column news about our guide Padma Shree, Dr. H C Verma was mentioned, as he received the great honor (Padma Shree) from the President of India on 8th Nov. Divya of class 8th, wrote in Savdhan column about the new variant of the Corona "Omicron" to complete the akhbaar



Sopan Ashram News

In the month of November, Mr. Rishikesh and his wife Sharayu visited and stayed at Sopan Ashram for about to days. He is Co-authoring a book with Dr. H. C. Verma which is based on learning physics through Indian Cultures stories. After completing his B.Tech, he has developed himself to academics and is helping school students to understand Physics and prepare for competitive examinations. During his stay at Sopan Ashram he worked on this project in the natural environment of Ashram. He also gave sessions for class 10th at SAEC. Mrs. Sharayu is a software engineer and gave valuable advices to our web manager Vimal Kumar to make Shiksha Sopan Website much more interactive and useful.

Remembering Swami Dayanand at Sopan Library

In November month, library members remembered Swami Dayanand Saraswati on his death anniversary the coordinator Mrs. Pushpa Ji told the story of his life and work done for the society.

अंधकार को क्यों धिक्कारें, अच्छा हैं एक दीप जलायें

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

How to donate: [Shiksha Sopan](#)

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