

Shiksha

Sanskar

Swavalamban



Shiksha Sopan

An Initiative of IIT Community for social upliftment

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Newsletter April 2022

Dear Readers, Greeting from the Shiksha Sopan family. With Covid-19 intensity going down, Shiksha Sopan conducted several activities with all the fun of doing collective educational meetings, camps and social events. A major Science fair, named SAMJHO was conducted at Sopan Ashram which was huge enthusiasm from all our volunteers, students and also in general masses. A joint cultural performance by all our centers was another big event after a gap of almost 2 years. All the centers put up their best to contribute. Here are some exciting details for the month's activities.

Central programs

Science Ab Mere Jeevan Me Ho (SAMJHO)-Science Fair

Shiksha Sopan in collaboration with SGM-IAPT Anveshika organized SAMJHO on 13th March 2022 at Sopan Ashram. SAMJHO was a like a Science Fair and everyone was invited to see and enjoy the science related to daily life. Science fair contained academic content from std 6 to M.Sc students. Around 2000 people visited the science fair. Science Fair/SAMJHO started by lamp lighting ceremony by Prof. Neelesh Badve, Materials Science, Prof. Priyanka from Computer Science Department, IIT Kanpur, Mr. Dharmendra katiyar, PCS officer, Prof. Sameer Khandekar, Mechanical Department, IIT K and Dr. H. C. Verma.



Whole premise of Sopan Ashram was decorated using colored flags. Just as People entered from main gate of Sopan Ashram, they were asked to do their registration using a QR code. Apart from registration, This was also the first item of SAMJHO Science Fair. Mr. Vimal Kumar who had developed the system, explained to the audience about the mechanism of QR which we use in transaction of money in market etc. There were wide varieties of stalls, Mr. Rinku Tiwari showed wonderful phenomenon using Kitchen utensils. He explained rolling and sliding motion using Chakla Belan and SIL-BATNA about, Pressure and heat from Pressure cooker and so on. Live demo on working of Induction Cooker and many more. The audiences were memorized by his stall and hear thrilled to understand the great Kitchen science. A drone was flying in Science Fair and the team of Avaikul introduced about the parts of the drone to the audience. Mr. Pushpendra Mishra interacted with audience and gave good information related to aviation. In another stalls Mr. Deenachand ji demonstrated the experiments related to liquid nitrogen. He showed how an inflated balloon deflates when it is dipped in liquid nitrogen. The temperature of liquid nitrogen is around -2000c. When the balloon gets out from liquid nitrogen it inflates again. It was a surprise for almost all who saw liquid nitrogen for the first time

He also introduced some research level things to the audience and motivated M.Sc and Phd students to do research. He also introduced about the Students Research Exposure lab which he is putting up at Sopan Ashram.

A very famous and skillful architect Mr. Gopal Khanna ji also gave his time and setup his stall in vigyan mela SAMJHO with his attractive handmade decorated wood items. A live on how to design a nest for Gauraiya bird. People were very much impressed to see his skill and simplicity.

Visitors had come from different places to visit our science fair. Some of the visitors came from far away places also. Teachers and students from different schools also came by school bus and saw wonderful, live and attractive science models at one place. Everyone was very happy to this type of Science Exhibition and also interaction with Dr. H. C. Verma. Shiksha Sopan centers also put up their stalls the brief descriptions of these are given below.

SASK students participated very actively, and they performed various experiments and models related to Mathematics like Sonam Sharma of class 7th displayed the model related to successor and predecessor. Ajit Kushwaha of class 7th displayed the Odd and Even number model, Shraddha of class 6th showed formulas for different shapes, Sachin of class 6th made a game based on rational and irrational numbers, in which all the viewers played in the Science fair. SASK children also presented BAAL AKHBAAR in this event.

SAEC also took part in the science fair and performed various activities. They also put up a welcome stall in front of the entry gate where Uttam, Sandeep, Amisha, Deeksha & Chandani welcomed the Science fair visitors and informed about the activities of the evening center.

Students of BEC performed various experiments at the science fair, where they showed different Mathematical puzzles and calculations. The children who took part in the science fair were Jyoti (12th), Manoj (9th), Ritu (9th), Saurav (12th), Khushi (9th), Parul (9th), and Khusbu (7th).

Sopan Library members introduced the visitors about Sopan Library and its Social interaction activities apart from the working. Several members narrated their own stories about how their lives about how their lives were transformed due to the interaction and programe at Sopan Library. Science Cell students demonstrated wonderful attractive experiments related to Physics, Chemistry, and Electronics. These students had already learnt soldering, drilling, and using various science equipments during their regular activities at Science cell. Hariom of class 12th and Shivansh of class 9th made various modes using electronic equipment. Hariom made an Arduino-based skeleton, in which he wrote some code in the compiler of Arduino. Through this, the skeleton was able to move its parts automatically. Shivansh drove sensor-based robotic cars. During the run of this car, it automatically avoid obstacles that come in its path. Shivansh used an IR sensor and Ultrasonic sensor, making it unique. This car can sense the sides of the path and run accordingly by avoiding hurdles in its path.



Tri- Structure Indian Model in 3D

At Sopan ashram, one of our dedicated volunteers, Mr. Yogesh K. Jha, crafted a 3D India model in, In this model, we show various parts of India, especially the mountains and rivers in proportion to their heights above the sea level. Water floating through these rivers through hidden tubes and finally falling the sea was a great attraction. Two of our volunteers at SAEC, Ms. Avani and Mr. Anant, decorated this 3D structure with paint and made it a point of attraction.



Cultural Program

After a long break Shiksha Sopan organized a cultural program at Sopan Ashram on 27th March 2022 from 6PM. All the centers of Shiksha Sopan participated in it and gave marvelous presentation in front of the audience. Mr. Ranjan Updhyay our senior volunteer of Shiksha Sopan was the chief guest of the function. Dr. Sameer Khandekar, Dr. H. C. Verma and Mr. Ranjan Updhyay lighted the lamp in front of Maa Saraswati and inaugurated the programme.



Participation certificates of Vigyan Mela and T-shirts with Shiksha Sopan logo were made by one of our old students and was distributed to all the students and workers who participated in the Science Fair. Children were very happy to wear the T-shirt and received the certificate. Mr. Ranjan Ji and Dr. Sameer Khandekar gave their blessings to all and Dr. H. C. Verma sang a song according to Shiksha Sopan theme tag line "Andhkaar Ko Kyu Dhikkare Accha Hai Ek Deep Jalaye". He called all the children on the stage and involved all of them in the song. The video of this part is uploaded on YouTube, the link is on the following link-



https://youtu.be/CUI_ulwK4_c

Mr. Amit K Bajpai, Mr. Vimal, Mr. Atul, Mr. Vipin, Mr. Ranjit along with all sang a song "Jindagi ek Safar Hai Suhana..." and gave vote of thanks to all. You may also listen this by clicking on this given link.

<https://youtu.be/H-P5NvS1Dcw>



Sopan Anaupacharik Shikshan Kendra (SASK)

Pi Day

On 14th March, SASK celebrated Pi day. Ms. Seema Verma told the students about the history of Pi, and she also said that the mathematical concept of Pi, played important role in studying the shape of this earth which is found to be round. Seema Ji told that the value of Pi is closed 3.14 or 22/7. The value of Pi was quite according famous Greek mathematician Archimedes. Aryabhat too has mentioned the perimeter of the earth leading to a good approximation to Pi.

Competition at IIT Kanpur

On 26th March, Dr. Ambedkar Vichar Samiti of IIT Kanpur organized variety of competitions for students of std 2nd to 8th. SASK students very actively took part in it.

In this competition, SASK students from class 2nd to class 5th took part in an Art competition where they made drawing on Save Water, Save Earth and Corona. The other students from class 6th to 8th took part in a quiz competition. Students enjoyed and learnt a lot from this. Ms. Seema Verma coordinated the programme very well. The result will be announced on 14th April 2022.



Annual Examination

On 28th March, SASK conducted an annual examination for its students at the center. This time the exam was conducted in two ways- one was written, and the other was oral. This exam was finished on the 5th of April.

Baal Akhbaar

Like every month, this month also Baal Akhbaar edition was prepared by students and released. In this edition, SASK provides the complete information about the Science fair organized at Sopan Ashram. Dipali of class 8th wrote about the Gauraiya Diwas in which she requested readers to save Gauraiya. Shreya of class 5th wrote a poem on the occasion of World Poem Day on 20th March. Gungun of class 4th made a beautiful picture of Gauriyya, and Sonam of class 7th wrote about the festival Holi in the column of Our Festival.



Barasirohi Evening center (BEC)

Academic activity

In March month, BEC activity was running as usual. On 5th March, two of the volunteers, Ms. Jyoti and Mr. Abhishek, taught Maths topics, including Puzzles, a calendar, a House of 9 points, the magic of a circle, etc. Children learned this thing and enjoyed it much.

On 21st March, Our senior person Mr. Pushpendra Ji taught science to the students, He taught chapter reflection of light to std 9 and 10. He explained the chapter very well because he used daily life examples during his class.

Holi Celebrations

On 16th March, BEC conducted Holi celebrations along with the children at the premises of the center. On this occasion, children were told about the history behind the Holi Celebration and also asked to play safe and dry Holi. At this celebration, children presented songs and poems.

Ms. Kshma and other volunteers arranged snacks from their home for the children, children enjoyed to eat the Gujiya, papad etc along with their resource persons.

अंधकार को क्यों धिक्कारें, अच्छा हैं एक दीप जलायें

Sopan Library

Coordinator of Library Mrs. Pushpa conducted various activities which are given below -

- Celebrating Mahashivratri online, in which children sang Shiv Tandav shrot and narrated the story of Shiv Ji.
- Conducted quiz competition for the children alternately.
- Celebrated water conservation day on 22nd March, in which Mrs. Pushpa urged everyone to save water and asked everyone to make aware their nearby people for saving water and problems arising due to shortage of drinking water.

Research Exposure Meeting at Sopan Ashram

A research exposure meeting was held at Sopan Ashram on 10th March 2022. A group of faculty members of J. K. college, Purulia, West Bengal have done marvelous work in the field of materials science research at low temperatures. They wanted to collaborate with Shiksha Sopan to setup the lab. Three members from the college visited Sopan Ashram Dr. Nityananda Das,



Associate professor and Head, Department of Physics with two colleagues Ms. Moumita and Mr. Binoy Das. We called two Professor from IITK, Prof. Anjan K. Gupta and Prof. Sayajeet Benerjee. Dr. H. C. Verma coordinated the meeting. The discussion session was very useful and the Purulia research got new research insights. It was decided that some financial help will be provided to this group from Shiksha Sopan.

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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