

Shiksha

Sanskar

Swavalamban



# Shiksha Sopan

An Initiative of IIT Community for social upliftment

Reg. Office: 391, Nankari, IIT, Kanpur 208016, PAN : AAFTS9743R

Newsletter March 2023

Dear Readers, Greeting from the Shiksha Sopan family. The month of February 2023 was very energetic for our volunteers as well as for our children because Shiksha Sopan conducted a Science Fair named **SAMJHO** (Science Ab Mere Jeevan me HO) at Sopan Ashram. All the centers put up their best to contribute in it. Together with this, centers conducted their regular activities. Here are some exciting details for the month's activities.

## Sopan Ashram Activities (SOASHA)

Sopan Ashram is coming up as a vibrant centre of social strengthening. Individuals and groups from schools, colleges/institutions visiting this place always express the feeling of positivity and confidence. It is all due to the efforts of our Sopan volunteers who work so hard with only aspiration of contributing to make many-many lives happy and useful.

### **DOSTI (Development Of Science Tourism Initiative)**

Sopan Ashram is steadily progressing as a Science Tourism destination as many institutions send their students and teachers for visit to our Ashram. In this series, 11 faculty members and 55 students, of Guru Har Rai Academy, a renowned school of Kanpur visited Sopan Ashram on 1<sup>st</sup> February. Dr. H.C Verma interacted with the students for about half a hour emphasizing the right way to look at education was followed by the visit to the labs of Shiksha Sopan where our volunteers showed them different experiments, explained the principles behind them. The whole discussion was in an interactive way so that the visitors could also think and participate in the process. The R&D section explained the use of different tools and electronic components. Students and their teachers were very happy to see the whole Ashram. They were very excited to see the low cost but very useful outdoor experiments. They wished for more visits at Sopan Ashram in future



### **Vigyan Mela**

Vigyan Mela (SAMJHO) was conducted at Sopan Ashram on 22<sup>nd</sup> February. It was a Mega event. The whole month of February till 22<sup>nd</sup> went in preparations. This Year the Vigyan mela was conducted in collaboration with SGM-IAPT Anveshika and Amar Ujala, Kanpur. The Science fair was inaugurated by Shree Rajshekhar, Commissioner of Kanpur, together with other dignitaries, Mr. Amit Kumar Niranjana, Shri Fateh Bahadur Singh, DIOS Kanpur, Senior delegates of Amar Ujala Shri Vinod Joshi, Dr. H.C Verma and Dr. Sameer Khandekar. The function started with lightening the lamp and Saraswati pooja. In the introductory Speech Padma Shree H C Verma Sir mentioned the idea and the

concept of SAMJHO (Science Ab Mere Jeevan me HO). In the inaugural speech Dr. Rajshekhar appreciated the activity and concept of Sopan Ashram. He also emphasized that an annual calendar should be prepared for the DOSTI visit by Govt Schools of Kanpur. We are planning to give a written proposal for this to him. In the concluding speech Dr. Sameer Khandekar gave vote of thanks and also mentioned that science is involved in all the day-to-day activities, and we should develop a habit of observing these thoroughly and understand the concepts of science behind such activities. The mela was started at sharp 10 AM.

School groups and individual visitors registered at the registration desk using a QR code, this electronic process of registration was also explained to them as the first item of SAMJHO. Using this methodology we also explained working of online transaction facility like Google pay, phone pay etc.

This year the Science exhibition had many different kinds of stalls. General Experiments Zone in which we demonstrated short concept-based experiments which we read in the books. Chemistry Zone displayed variety of indicators, easy methods to make gases like Oxygen, Carbon dioxide etc, Puzzles Zone was very interactive and used variety of mathematics activity, Paper Activity Zone- You can cut papers in different types and make variety of things, Electronic Zone, Bujho to Jaano Zone.

Along with these zones, a stall of Opportunity School exhibited different length measurement techniques including those used by civil engineers (Rodometer) to measure long distances on one hand and plates for measuring small distance thickness of transformer wires. Around 15 students and their mentor Mr. Anubhav Awasthi gave wonderful explanation to the visitors. The stall of First Sunday Club showed variety of small experiments which are very useful during classroom teaching, Also they had some daily use gadgets on the stall. The induction cooker was a hot center of attraction as people were curious to know the mechanism of this heating. Mr. Manish Yadav, Mr. Mohit Singh, Mr. Ramendra Kushwaha, Mr. Chandan Shukla, Mr. Praveen Patel, Mr. Banke Agrawal and Mrs. Seema were present on this stall.

Mr. Pushendra Mishra and Mr. Sabri came from Aviation company, Aviakul, Delhi for this mela and they demonstrated working of drones. Also, they gave live demo by several times by flying drones during the fair. A student of Ambedkar Institute presented 3D Printer Models. The stall by Mr. Gopal Khanna exhibiting wooden toys and models was another attraction of science fair. 3D India Map, long pendulum, wave model, Image processing by a convex lens, history of pi, reflection phenomenon using window of Sopan Ashram, thermocouple concept were demonstrated by NSS students of IIT Kanpur. A PSLV model using used plastic bottles was a great centre of attraction where everyone want to click photo with the model. The students of the different centers of Shiksha Sopan have exhibited





their models and Puzzles. Also, they explained the activities at their center to the visitors. Around 3000 students, teachers and others visited the Science fair.

### **Dr. V. N. Kulkarni Merit Scholarship Examination**

Shiksha Sopan has been conducting Dr. V. N. Kulkarni Merit Scholarship examination for the students of standard V , VIII and X in the memory of Late Dr. V.N. Kulkarni Professor of Physics at IIT, Kanpur. He was a mentor of Shiksha Sopan from the beginning and always motivated Sopan volunteers to do the best for the society. In his memory, every year we conduct this examination from the year 2011. This year the examination was conducted on 12<sup>th</sup> February, 2023.

Our volunteers visited schools of local vicinity, around 3 km of radius from Sopan Ashram. They motivated the school principals to enroll their students in this examination. The motivation behind this exam is to enhance the academic quality of the society. 1015 students were enrolled for the examination from different schools. The examination was conducted at four examination centers, these were Opportunity school in IITK campus, Sai Applewood public school at Shivli road Kalyanpur, Sardar Patel Intermediate college, Mandhana and R.G. Public school in Guva garden near IIT society. 713 students finally appeared in the examination. The staff and the volunteers of Shiksha Sopan worked hard for the smooth conduct of the examination.



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

Together with free education to children, SASK conducts several programs to develop a variety of skills in them. The following activities were conducted this month.

### **Making Math's Model**

SASK has done different activities amongst which making math model was carried out on February 23 . The models designed include, model of Doremon teaching mathematics by Raani of Std. 3<sup>rd</sup>, the roman number model by Mohan of std. 5<sup>th</sup> , time wheel model and wheel of multiplication model by Durgesh of std. 5<sup>th</sup> , game of rational and irrational numbers by Shreya of std. 6<sup>th</sup> , proceeding and succeeding numbers game by Aryan of std. 6<sup>th</sup> , The model of Trigonometry and the polygon model by Divyanshi and Shraddha of std. 7<sup>th</sup> , the model of parts of circle and algebraic identities by Sonam of std. 8<sup>th</sup> , Equations and figures model by Lalit, the model of indices, the 3D model of Pythagoras Theorem and electric quiz board by Ankit of std. 8<sup>t</sup>.

These models were prepared under the guidance of Ms. Seema Verma.



## National Science Day

The national science day is celebrated on 28<sup>th</sup> February. On this day the poster making competition was conducted for the students of std. 1<sup>st</sup> to 8<sup>th</sup>. The students of 1<sup>st</sup> std. prepared the poster exhibiting the parts of the trees, the green earth, rising sun, jumping doll explaining the science involved. Durgesh of std. 5<sup>th</sup> painted a portrait "Save Water" and Suryansh of std. 6<sup>th</sup> prepared the poster of "Sun eclipse and moon eclipse". The poster depicting the importance of food and its preparation was prepared by Aakrat of std. 5<sup>th</sup>. The posters of Nitrogen Cycle and Sublimation were prepared by Ankit and Sahil respectively of std. 8<sup>th</sup>.



Ms. Seema verma narrated the importance of celebrating Science Day making students aware about the fact that in 1928, The Noble Prize Winner and the Indian Physicist Sir C.V Raman has invented the RAMAN EFFECT on the same day. And for the very same reason we celebrate National Science Day on 28 February every year.

## Bal Akhbaar

Bal Akhbaar for the month of February 2023 was compiled by Divyanshi of std. 7<sup>th</sup> and Sahil of std. 6<sup>th</sup>. Different columns in the newsletter were written by the students of different classes.

In "The poetry" column the poetry of Yuvraj of std. 4<sup>th</sup> with the title Patjhad is published. The newsletter also gave the information about the science day in the column Rochak Jaankari written by Durgesh of std. 5<sup>th</sup>. Sonam of class 8<sup>th</sup> has written about Hamara Vigyan Mela. The column of Bal kahani was written by Ankit of class 8<sup>th</sup> and Jayanti column was edited by Lalit of std. 8<sup>th</sup> with the information about the Chandrasekhar Azad. The treasure of mathematics by Ajit of std. 8<sup>th</sup> was published in the column Socho aur Batao. The Akhbar also published a very good drawing of Varsha of std. 1<sup>st</sup>.





## Barasirohi Evening Center(BEC)

### **Board Exam Preparation**

Along with the regular activities of the evening centers, Ms. Kshama Dwivedi guided the students of 10<sup>th</sup> std. regarding the Board Exam preparations and the precaution to be taken while solving the questions in the paper. The students were given the pens (Black and Blue) for upcoming examination.

### **Mahashivratri Program**

Kshama Dwivedi narrated the importance of the Mahashivratri Vrat to the students. She explained about the rituals performed on that day.

### **Black Day (Saheed Divas)**

Mr. Pushpendra ji talked about the terrorist attack by the terrorist of Jais-E-Mohammad at Pulwama on 14<sup>th</sup> February. He also emphasized on Surgical Strike executed by Indian Army at Balakot terrorist camp to teach the lesson to the terrorists and pay the homage(tribute) to the martyr soldiers in Pulwama attack .



### **24 February, IITK Ph.D. Students' Visit**

IITK Ph.D. student Mr. Rahul Ji visited Evening Learning Center of BEC and delivered his talk on the importance of reading the books on 24<sup>th</sup> February. Mr. Anoop Asthana ji, very dedicated volunteer has taught one of the poems from the book Geetanjali. The students were introduced about the writer of the books NAIVEDYA and GEETANJALI. They suggested to read the books regularly every Saturday to develop the habit of reading.



### **Sopan Library**

Along with the regular activities of library which includes Geeta Path and Prabhu Vandana, the highlights of this month are serial reading of the book Man ki Aankhe by Kshipra, a talk by Mrs. Pushpa Tripathi on concentration and how it helps in solving complex things in the life with the help of story, Reading of a dialog of Maharishi Bhardwaj on "Vidya & Vinay", Raksha ji narrated the power of Hanuman ji with the help of a story, Shiv Tandav Stotra Path on the eve of Mahashivratri.

The Books Naivedya and Geetanjali written by Late Shree Ganesh Prasad Verma donated by Padma Shree H.C Verma are issued to different members of Sopan Library for reading.

### **Sopan Ashram Evening Center**

Along with studies, the children of Sopan Ashram Evening Center also participate in many activities of Sopan Ashram and this time they were engaged in preparations with great enthusiasm for the science fair.

## Information about The Cancer Day

Cancer Day is celebrated every year on 4<sup>th</sup> February. The purpose behind celebrating Cancer Day, is to make common people aware of the dangers of cancer and provide information about its symptoms and prevention. The first Cancer Day was celebrated in Geneva, Switzerland in the year 1933 on the initiative of the World Health Organization. This information was explained in details, to the children of the center so that they too are aware of such information.



## Darwin Diwas

Vinay Mishra ji talked in detail to the children about Darwin Day and why it is celebrated. Since February 12, 1809, the celebration commemorates the birthday of Charles Darwin. The day is used to highlight Darwin's contributions to science and to promote science in general.

## Achievement

Vivek Gautam has been selected in Babasaheb Bheemrao Ambedkar University for B.Tech from Mechanical Branch. He had studied till 12th from Sopan Ashram Evening Center. Vivek thanked all the people who taught him at Sopan Ashram and his family also gave thanks to Shiksha Sopan for his achievement.



अंधकार को क्यों धिक्कारें, 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*

(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**

(d). People in US can use the link <http://www.iitk.ac.in/dora/donation/PayPal/> and Choose Shiksha Sopan Charitable Contribution to donate through IIT Kanpur foundation using credit cards. All donations are 100% tax deductible in the United States. IIT Kanpur Foundation (Tax ID: 94-3370645) is Tax Exempt under 501(c)(3) classification of IRS.

(e). All donations are Tax free (up to 50%) under section 80/G.

**Email Contacts** : [hcverma@iitk.ac.in](mailto:hcverma@iitk.ac.in), [samkhan@iitk.ac.in](mailto:samkhan@iitk.ac.in), [sopanbajpai@gmail.com](mailto:sopanbajpai@gmail.com)  
[sopaniitk02@gmail.com](mailto:sopaniitk02@gmail.com)

**Postal Contact** : *Dr. Sameer Khandekar, Dept of Mech. Engg., IIT Kanpur 208016*  
*Dr H C Verma, Dept of Physics, IIT Kanpur, Kanpur 208016*

**Phone contacts** : *Mr. Amit 9506611484, Mr. Ranjan 9235905046*