

**Shiksha  
Swavalamban**

**Sanskar**

# Shiksha Sopan



**An Initiative of IIT Community for social upliftment**

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

**Newsletter October 2023**

Dear Readers, Greetings from Shiksha Sopan !

We are pleased to present a concise report for the month of September 2023, which featured a multitude of significant activities, highlighting the efforts of Shiksha Sopan members, volunteers and students, and showcasing our commitment to educational excellence.

## **Sopan Ashram Activities (SOASHA)**

### **Pt. D. P. Mishra Memorial School, Ahirwa**

September turned out to be a very busy month for Shiksha Sopan, so we could not invite schools to visit us at Sopan Ashram. We could only allow one school to visit Sopan Ashram in the month of September. Pt. D.P. Mishra Memorial School, Ahirwa, Kanpur visited Sopan Ashram with 40 students of class 11-12 and their 4 teachers on 2<sup>nd</sup> September, 2023. The school came to Sopan Ashram at around 9.30 in the morning. Ms. Bhavana Mishra, Physics teacher, was the coordinator from the school.

First, we showed some common experiments related to force and pressure. Shri Amit Kumar Bajpai and Shri Yogesh K. Jha performed 4-5 experiments related to the above topic. The students and teachers were then divided into three groups to visit the laboratories. Students learned and had fun in each lab, including outdoor experiments. The students enjoyed Sopan's laboratories and outdoor experiments with full energy. The students and teachers appreciated us and thanked us.



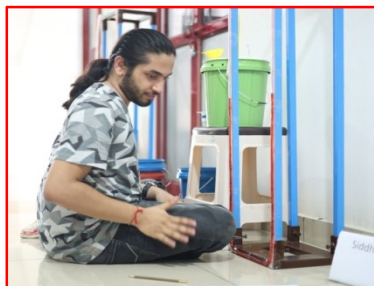
## National Anveshika Experimental Skill Test 2023

Joy of Physics and National Anveshika Experimental Skill Test-2023 (NAEST-2023) was a joint venture of Shiksha Sopan and SGM-IAPT Anveshika. NAEST 2023 concluded on 24 September 2023 at Sopan Ashram. This year 821 school level (Class 9-12) students and 187 college level (BSc and MSc) students qualified for admission to the Prelims round after a screening round in which each student performed three experiments at ease in their homes without using any conventional laboratory equipment.

Total 40 students were selected for the semi-finals. Out of 40, 38 turned out at Sopan Ashram, Kanpur. 32 were from school level and 6 from college level, who were brought to Sopan Ashram for the semi-final round and Joy of Physics workshop. The semi-final and final rounds were held from 22<sup>nd</sup> to 24<sup>th</sup> September 2023. Semi-final and final experiments were made by the team of Shiksha Sopan, 3 experiments for semi-final round and 3 experiments for final round. All 6 experiments were specially designed for NAEST 2023.

A Kavi Sammelan was also organized by Shiksha Sopan volunteers for the students and their parents. It was successfully conducted by Mrs. Shipra and Mr. Bharat Soumya. Everyone enjoyed the session in a wonderful atmosphere.

An educational session was also arranged for these 38 students at IIT Kanpur the next day, and the students were very excited for this visit. The Lecture Hall Complex (L8) was specially booked, and Dr. Sudip Bhattacharya, Faculty, Department of Physics, IIT Kanpur, interacted with the students and talked about his research. Further, Prof. Samar Khandekar gave a talk on technology.





### Sopan Outreach: Majlish (SOORMA)

A wonderful outreach program of SOORMA in collaboration with Shiksha Sopan is going very well. Mrs. Smita Fangariya, the coordinator, has given a good shape to this activity. It went well, offline and online, both modes are regularly happening. A brief report of September 2023 is given below for your reference.

The online session was conducted on 17<sup>th</sup> September from 4:30 pm to 5:30 pm. Mr. Basu Sahu was the resource person for this program. And the number of participants were 15. The topic for the session was **"Historical perspective of Snell's law."**

In his session, Mr. Basu Sahu explained how Snell's law evolved finally in its latest form. First, he discussed how researchers have represented sine law of refractions. Under these points, he discussed four different types of representations of sine law of refraction by researchers, that is, representation by Rene Descartes (1637), Snell (1621), Thomas Harriot (1602) and Ibn Sahl (984). He mentioned that sine law of refraction was first known to Thomas Harriot in 1602 and he should be given the credit of first discoverer of sine law.

Basu Sahu ji explained the actual statement of sine law given by Snell in 1621 and everyone was intrigued to know that it was ratio of secant of complementary angle of incident and refraction. He explained the beautiful geometry used by Snell.

Lastly, he talked about the modern definition of "Fermat's Principle" that light follows the path for which time taken to reach from one point to another point is extreme in comparison to nearby path. Many were surprised to hear that light can even follow path of maximum time. It was quite an informative session. The response was very overwhelming, and we hope to have more such sessions in future.

### First Sunday Club (FSC)

Every First Sunday of the month, Shiksha Sopan organizes FSC at Sopan Ashram, Nankari, Kanpur. It is a joint programme of Shiksha Sopan and SGM-IAPT Anveshika. Teachers from Kanpur and nearby districts assemble for two hours. It is great honour that on every Sunday club, Verma sir's presence is marvellous. Teachers came up with their science problems which they faced during classroom teaching. Around 45 teachers came to participate in this session. This was 122<sup>nd</sup> Sunday Club and it was started in month of September so we celebrated its Anniversary. So all the members shared their experience of the FSC and how it is useful for them, some of the members gave us wonderful suggestions for the session. Mr. Amit Kumar Bajpai, Coordinator, showed earlier activities photographs and told them which kind of activities we conducted in last year's. Old memories in photographs were the fun for every FSC member.

Dr. H. C. Verma gave us blessings and suggested one event, we will conduct it in fourth coming science day i.e. 28<sup>th</sup> February 2024. It will be mega event and we are planning to conduct it for around one lac students.



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

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

### **Quarterly Examination**

Quarterly examinations started from September 4 at SASK. This exam was for students from class 1 to class 8. This examination was in written as well as oral. This examination conducted for one week.

### **Teacher's Day**

Teacher's Day was celebrated at SASK on 5th September. The children of the center gave pens, chocolate and flowers to all the teachers. Nandani of class 8 wished all the teachers a happy Teacher's Day by making beautiful cards. Divyanshi of class 8 told all the children about the reason for celebrating Teacher's Day and the life of Dr. Sarvepalli Radhakrishnan. Durgesh of class 6 presented a very beautiful line in honor of the teachers.



"जन्म देते है माता पिता ,शिक्षक देते है ज्ञान, जिसके कारन मिल रहा आज हमें सम्मान "

### **World Literacy day**

On the occasion of World Literacy Day on 8<sup>th</sup> September, Seema Verma ji told the students the reason for celebrating Literacy Day and what is the meaning of literacy. Literacy Day is celebrated not only in India but all over the world. On 17<sup>th</sup> November 1965, UNESCO announced to celebrate World Literacy Day on 8<sup>th</sup> September. This day is celebrated with the aim of making people aware of the importance of education in the country.



## **Hindi Diwas**

Hindi Day was commemorated on the 14th of September at the SASK, during which a series of activities were organized over a span of ten days.

Ms. Seema Verma, in her address, highlighted the historical significance of Hindi as it was officially recognized as the language of India on the 14th of September, 1949. It was on this momentous day that Hindi was established as the official language of the Republic of India, and since then, Hindi Diwas has been celebrated annually on the 14th of September.

One of the notable events organized was a singing competition that underscored the significance of the Hindi language. The competition witnessed enthusiastic participation from students spanning from Class 3 to Class 8, who are as follows:

Shivani and Ishant (Class3), Rimjhim and Rani, Yuvraj (Class5), Durgesh (Class 6), Humming (Class 7) and Nandani (Class 8).

In honor of Hindi Diwas, an engaging game centered around Hindi grammar and language was planned and executed. This game attracted participants from Class 1 to Class 8, adding an extra layer of excitement and enjoyment to the proceedings.



## **Baal Akhbaar**

The September edition of the "Pravah Bal Akhbaar" was curated by two talented students from Class 8, Nandini and Divyanshi. Furthermore, Aryan, a student from Class 7, added his insights on our recent quarterly examinations.

Within the pages of our art column, Rani and Avantika, students from Class 4, published captivating depictions of the young Krishna, Ganesha respectively, showcasing their artistic prowess.

In our poetry column, Durgesh, a student from Class 6, wrote a heartfelt poem on Hindi Diwas in our native tongue. Shiva, a young student from Class 5, contributed a piece to our "Gyan Vigyan" column, enriching our readers' knowledge by shedding light on the intricacies of the solar system.

## Sopan Ashram Evening Center(SAEC)

### English Classes

English classes are conducted every Sunday by Mr. Bhuvan Bhatia from Kakadev, for students in the 8th to 12th grades. Mr. Bhatia has systematically structured the classes, initially focusing on foundational aspects. The students receive instruction on sentence formation, including understanding the principles of the present and past tenses.

Subsequently, he delves into each tense comprehensively during his sessions. In each class, Mr. Bhatia assigns tasks to the students, challenging them to construct various types of sentences. This practical approach significantly contributes to the enhancement of the students' language skills, fostering their continued development.



### Teacher's Day Celebration

Teacher's Day program was celebrated with great enthusiasm at SAEC on 5th September. This time this program was organized through Abhivyakti 2023 and every month a special program will be ensured at the center by Abhivyakti so that the qualities can develop further within the children. The theme of expression was kept in which the children of the center prepared a 5-minute topic related their academic syllabus and they presented in front of the audience during the program. Ankita ji provided information about teacher's day through PPT. The decorated pens by the children were distributed to everyone. Our children had worked hard in decorating these pens.



### Achievement

Our student Sagar Kumar, has been selected for BCA in Indira Gandhi National Tribal University, Amar kantak (M.P). Sagar joined SAEC in 2018, studied till class 12<sup>th</sup>, and remained connected with Sopan and IITK students after completing his school. Sagar gets guidance from Shiksha Sopan and Aman Prasad ji regularly. Despite many obstacles due to the financial conditions of his family, he has been able to get this achievement. Shiksha Sopan wishes him a bright future ahead.

## Psychology Class

On Thursday, 11<sup>th</sup> September, a third psychology class was conducted for all the children, It took by Dhuni Raj and his team from IIT Kanpur.

He talked to the children about how we should behave, how we should have our study schedule and how we should think. He also played many types of games with children so that he could know how children think and understand.

Dhuni Raj ji told the children in detail what should be your actual routine and how you should study. And he also made the children do many mind exercises.



## Bio Class

Bio classes are being conducted by Prakriti Azad ji for the children of class 9 and class 10, because children study subjects like mathematics, science etc. well but do not pay attention to bio, whereas it is mandatory to read bio in class 9 and 10.

Prakriti Azad ji has till now told the children in detail about many types of viruses, bacteria and amoeba. He informed the children that parasitic fungi cause diseases in our trees and plants of economic importance and also cause harm to our crops. He also told the children what are those parasitic fungi.



## Barasirohi Evening Center(SAEC)

### Teachers day

Teachers are extremely valuable for the development of any society. Without good teachers, a nation cannot progress. Every year India celebrates Teachers' day on 5<sup>th</sup> September on Dr. Sarvapalli Radha Krishnan's birthday. Ruby Srivastava ji from Rama Medical College, Sangeeta ji and Geeta ji, former volunteer of Shiksha Sopan, were also present as our chief guests.

As part of Teachers' Day programme, a small quiz competition was organized at the center. In which the children enjoyed a lot. In this competition, questions related to general knowledge and Shiksha Sopan were asked.





## Ganesh Mahotsav

Ganesh Chaturthi is a major festival of Hindus. This festival is celebrated in different parts of India but is celebrated with great pomp in Maharashtra and Karnataka. At Barasirohi Evening Centre, the children were told about Ganesh Mahotsav by Kshama ji. The children of the center made beautiful paintings of Ganesha on the occasion of Ganesh Utsav.

## Special Class

Poonam ji was a physics teacher in the old program Gahan Adhyan Kendra of Shiksha Sopan. She came to the center for 10 days and took a special class for the children, in which she also shared her experiences with the children.

## Sopan Library

## Sanskaar Shala

Sanskar Shala is being run two days a week for small children in Shiksha Sopan Library. In which children of library members and children of IIT campus are coming. Children are taught about their religious scriptures.

अंधकार को क्यों धिक्कारें, अच्छा हैं एक दीप जलायें

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**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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