

**Shiksha
Swavalamban**

Sanskar



Shiksha Sopan

An Initiative of IIT Community for social upliftment

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Newsletter March 2025

Dear Readers,

Namaste! And wish you a Happy Holi.

The March 2025 newsletter contained February activities of all the centres. The mega event of Shiksha Sopan held in February called SAMJHO. First Sunday Club for teachers, Academic activities at SASK and Pravah Baal Akhabar, SAEC and Sopan library are running good. Please find the reports given below

Science Ab Mere Jeevan me HO (SAMJHO)

A mega event of Shiksha Sopan, SAMJHO, a science fair was organized on 15th February, 2025 at Sopan Ashram. Amar Ujala was the media partner of the event. Science fair was organized in collaboration with SGM-IAPT Anvehiksa and Sopan Trust. The whole premises of Sopan Ashram and outside field was decorated with experiments and stalls. student from all the centres had made preparations with great enthusiasm; preparations for this fair had been going on in full swing for about a month. Around 6800 people visited and participated in the event. The event started around 10AM.

Mr. Rajesh Kumar Srivastava, ADM, finance was the chief guest of the event. Mr. Srivastava, Dr. H. C. Verma, Dr. Anurag Tripathi, Dr. Amit Niranjana (an educationist), Mr. Ankit Shukla and Mr. Ravindra Supekar from Amar Ujala lighted the lamp in front of Maa Saraswati.

More than 300 science and mathematics related experiments were displayed in the stalls, a huge stall of electronics was set up, the books written by Verma Sir were also shown, drone was also the centre of attraction, a cannon was made from a PVC pipe which used to roar loudly during the fair. Arrangements were made to serve sharbat to all who came to the science fair and steel glasses were used for everyone from the Bartan Bank, plastic glasses were not used in the science fair. There was a dark room where optics experiments were being conducted; around 80 students from NSS, IITK were also demonstrating science experiments to the visitors. There was also an effort to connect people with nature through the organic vegetables of Sopan Ashram, and many other types of stalls are enhancing the beauty of the science fair. Verma sir's presence was filling the energy in the, everyone was talking with Verma sir and clicking photos, in the closing session Anurag sir and Verma sir addressed everyone and thanked them.



First Sunday Club (FSC)

First Sunday Club was held on 23rd February 2025 at Sopan Ashram. A wonderful experimental session was arranged for the teachers. Mr. Yogesh Kumar Jha put an optics puzzle in front of the members and everyone was engaged in it. Verma Sir explained this puzzle in such a wonderful way and also answered many asked questions during the FSC session. Dr. Anurag Tripathi sir was also present in the session. You can feel the energy and joy of the First Sunday Club



from the accompanying photo. Members of the First Sunday Club also set up a stall at the science fair and interacted with all the visitors.

Kashmir students visit at Sopan Ashram

The news of Sopan Ashram's experiments, its peace and the presence of Verma Sir reached the valleys of Kashmir, and people from Kashmir visited Sopan Ashram. Five girls, 6 boys and 4 mentor teachers came from Hill Grange Secondary School Handwara, Kashmir. The camp was started with lighting the lamp by the teachers and Dr. H. C. Vemra sir. Verma sir interacted with the students and motivated them. Students visited Opportunity School, New SAC, Computer Lab, Nuclear Physics Lab of IIT Kanpur. They also interacted Prof. Aditya Kelkar in Nuclear Physics Lab, he showed some simple experiments of Electromagnetism. Students were happy to visit IIT Kanpur.

They also visited Dr. Sandip Patil's company, E-Spin Pvt. Ltd. Students saw how a N95 mask manufactured in the company. A carrier counseling session was also conducted for them. Ms. Pranshi Gupta gave this session. The session was full of information. Teachers and students both were very happy to met Dr. Verma and whole sopan ashram's family. They invited us to come Kashmir and see the beauty of the valley.



A School Visit of Sopan Ashram

A Banigaon Composite School block Unnao was visited on 28th February 2025 at Sopan Ashram. 28th February is celebrated as Science Day, so Sopan team celebrated Science Day with those kids, they gave a common session to the students in which they gave information about Science Day and demonstrated experiments related to Optics. Students participated in the experiments after that students visited our labs. Mr. Ritesh Singh, Mr. Yogesh Kumar Jha, Mr. Vinay Kumar Mishra, Mr. Deepu Kumar, Mr. Ranjit Kumar were gave the sessions.



Sopan Anaupacharik Shikshan Kendra (SASK)

Academic Activity

In February, various subject-related activities aligned with the curriculum were conducted by teachers at the Shiksha Sopan Anaupcharik Shikshan Kendra.

English:

- ❖ Seema Verma taught Class 3 and 4 student's, topics were fill in the blanks using pictures, the use of articles, completing poems, identifying musical instruments in English, singular and plural forms, and matching words.
- ❖ For Class 5 to 8, students were taught textbook reading, finding answers from chapters, past tense usage and filling in correct words in sentences.

Mathematics:

- ❖ The vertices, sides, and angles of a triangle were explained.
- ❖ Using models, students learned sides, angles in triangles and their names.
- ❖ The names of different geometric shapes were taught using models.
- ❖ Students practiced drawing circular shapes using a compass.
- ❖ Concepts such as center, radius, diameter, circumference, and chord of a circle were explained using models.

Science:

- ❖ Students were taught types of energy and their transformations through experiments.
- ❖ Divergent and convergent beams were explained using diagrams.
- ❖ The importance of muscles, hair, gravitational force, magnetic force, electric charge, and frictional force was demonstrated with examples.
- ❖ The nature of electric charges, charges showed attraction and repulsion, and electric current were explained through experiments.



Visit By IITK Students

Dr. Neeraj Chavke Sir brought IITK students to visit the Shiksha Sopan Anaupcharik Shikshan Kendra. He introduced all the IIT students to the SASK students. The IIT students learned a lot about the SASK from Seema Verma Ji. They encouraged the student by asking about their studies and appreciating their interest in mathematics. The student also showcased some mathematical models which they had created. Additionally, IITK students is planning to visit SASK on every Saturday to teach the students.



Participation in Vigyan Mela

On 15th February, the student of Shiksha Sopan Anaupcharik Shikshan kendra participated in the Science Fair organized at Sopan Ashram. They set up a Math's stall named *Math's Darpan*, where they displayed mathematical models and posters. During the fair, the student also observed various science experiments and gained valuable knowledge.



Science Day Celebration

Science Day was celebrated on 28th February at the Shiksha Sopan Anaupcharik Shikshan Kendra.

Ms Seema Verma told the student about the great scientist Dr. C.V. Raman. On this occasion, some selected students and teachers demonstrated various science experiments and models to the present students.



Shiv Mohan from Class 7 explained a **water purification model**, while Aryan from Class 8 demonstrated an **air pressure experiment**. Durgesh from Class 7 presented the **energy transfer pendulum**. Additionally, Ms Seema Verma explained the **parts of plants, photosynthesis, and the water cycle** with simple models, so that they understand the concepts in a better way.

Pravaah Baal Akhbaar

This edition of *Pravah Bal Akhbar* was jointly prepared by Avantika from Class 5 and Shreya from Class 8, featuring contributions from several student.

Kajal from Class 5 wrote a beautiful prayer dedicated to **Maa Saraswati Ji**. Shreya from Class 8 published a stunning illustration of **Maa Veena Vadini** for *Basant Utsav* in *Pravah Bal Akhbar*. Kajal from Class 8 provided insights about **International Mother Language Day**, observed on **21st February**. Avantika from Class 5 contributed **10 lines on the Mahashivratri festival**, while Vaishali from Class 6 explained the **water cycle** in the *Learn Science* column.



Sopan Ashram Evening Center(SAEC)

Special Session by H.C Verma Sir

Verma Sir's class held for two days, in which he taught and explained the concept of conversation in an amazing way.

First, he told the students that some words do not have a specific meaning but are used to maintain coherence in speech—for example, *haal-chal*.

Verma Sir explained that the Earth was formed about 4.5 billion years ago and discussed the timeline of the origin of different organisms on Earth.

Sir also explained how the Sun was formed in our solar system and how long it is expected to exist, based on scientific estimates. Additionally, he demonstrated how new gases are formed by the combination of certain gases through a practical experiment. Using a straw, he clearly demonstrated the difference between high and low pitch of sounds.

This two-day class was truly enriching, and the students learned a lot.

Third day session on Laws of Motion

Verma Sir's class held on third day, in which he taught the laws of motion to the student in a highly engaging and interactive manner. He explained the fundamental principles of motion with real-life examples, making it easier for the students to grasp the concepts. Through discussions and thought-provoking questions, he encouraged the student to think critically about how motion works in their surroundings.

To make the learning experience more effective, Verma Sir also conducted practical demonstrations that illustrated the application of these laws in everyday life. He used simple experiments to show concepts like inertia, acceleration, and action-reaction forces, allowing the students to witness these laws in action.

Throughout the sessions, he ensured that the students actively participated in discussions, asked questions, and shared their observations. By integrating conversation-based learning, he helped the student not only understand the laws of motion but also develop confidence in expressing their thoughts scientifically.

These three days of learning were truly enriching, and the students gained a deeper understanding of physics in a fun and interactive way.



Special language Class in a special manner

Anubhav Ji showed a story to all the student through a projector. The main purpose of this activity was to help the student understand the language in its true form. All the student read the story, and Anubhav Ji explained language-related difficulties which they encountered.

He emphasized the importance of language in our daily lives and how we should use it correctly. Anubhav Ji asked questions related to the story while keeping the science subject in mind. The student actively participated and attempted to answer these questions.

The story aimed to develop positive thinking in the students and provide them with valuable lessons. As part of the activity, the student took turns reading the story aloud, which helped improve their language skills. Additionally, Anubhav Ji formulated questions based on the story's, focusing on a scientific perspective. The student not only learned how to read and write with accuracy but also understood the importance of using language correctly in everyday life.

Weekly Class by Anamika Ji

At Sopan Ashram Evening Centre, along with regular activities, a weekly class on the *Shrimad Bhagavad Gita* has been introduced. This class is conducted by Anamika Ji, who explains what the *Gita* is and how its teachings apply to life.

The sermon given by Lord Krishna to Arjuna just before the Mahabharata war is famously known as the *Shrimad Bhagavad Gita*. It is a part of the Bhishma Parva of the *Mahabharata* and consists of 18 chapters and 700 verses.



Participation in Vigyan Mela

On 15th February, the student of Sopan Ashram Evening Centre actively participated in the Science Fair organized at Sopan Ashram. They enthusiastically contributed to decorating the venue, creating models, and engaging in craftwork. Their hard work and dedication were widely appreciated by everyone present.

In addition to their creative efforts, the student also played a significant role in explaining various science experiments to the visitors during the fair. They confidently demonstrated scientific concepts, making learning interactive and enjoyable for the attendees.




Barasirohi Evening Center(BEC)

Participation in Vigyan Mela

Preparation for the Science Fair, held at BEC from 1st February to 13th February, led by Pushpendra Ji with great dedication. A total of 10 student from the center participated in the event, showcasing their creativity and scientific understanding through various models and experiments.





Saurabh built an impressive hydraulic bridge, demonstrating the principle of fluid mechanics and pressure. Nitya created a model of the solar system, beautifully illustrating the arrangement and movement of planets. Muskaan and Parul conducted a fascinating experiment showcasing color change using lemon, effectively explaining the science behind acid-base reactions.

Visit by Former Sopan Volunteer

On 21st February, former Sopan volunteer Jai Prakash Maurya Ji visited the center and interacted with the student. He shared valuable insights about the various activities conducted at Sopan and recounted its journey, highlighting its mission and contributions to education and social development.

Board Examination's Guidance

On 23rd February, the students of Class 10 and Class 12 received important guidance on preparing for their upcoming exams.

On 24th February, a Hindi exam was scheduled for students of Classes 10 to 12. In preparation for this, Kshama Ji conducted a special session where she discussed key topics from the Hindi syllabus, including biographies, dramas, and stories. She helped the students understand important concepts, provided explanations for complex topics, and guided them through potential exam questions.

Academic Activity

On 27th February, Pushpendra Ji conducted a mathematics session at the centre, where he taught the student how to create and memorize multiplication tables effectively. Additionally, the student of Class 5 and Class 6 were given a detailed lesson on numbers, helping them strengthen their mathematical concepts.

Kshama Ji introduced the student to calligraphy, guiding them on how to write beautifully while pronouncing the words clearly. This activity helped improve their handwriting and pronunciation skills simultaneously.

Along with these activities, some student were encouraged to read Hindi and English books, enhancing their reading fluency and comprehension skills. The session was both productive and enjoyable, as it helped the students develop essential academic skills in a fun and interactive manner.

Sopan Library

Daily activities in the library are continuing as usual. This month, with the Science Fair approaching, the **students** enthusiastically prepared their projects. They demonstrated **the process of cloud formation**, explaining how evaporation leads to condensation through an interactive project. Additionally, they created a **volcano model** and presented it at the fair, showcasing their understanding of geological phenomena. During the event, the students also shared **insights about the library's activities**, highlighting its role in fostering curiosity and learning.



Sanskar Sala

This month in **Sanskarshala**, along with teaching **values, shlokas, and word collection**, we introduced **mind games** using Hindi and English alphabets to support the mental development of student. These activities help student learn in a fun and engaging way, without any mental pressure. Additionally, student are being encouraged to read books regularly.

अंधकार को क्यों धिक्कारें, अच्छा हैं एक दीप जलायें

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