

Shiksha

Sanskar

Swavalamban

# Shiksha Sopan



An Initiative of IIT Community for social upliftment

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

Newsletter January 2021

In the month of December, Shiksha Sopan did a lot of work. The newly elected Executive Committee has taken up the charge and conducted a meeting for setting up the goals and blueprint for the upcoming year. A major development was to set up an Open Air Lab cum classroom at Sopan Ashram. Evening learning centers, classes in Gyandayani Open Air Lab (GOAL), Sopan Anaupcharik Shikshan Kendra and other activities all went well.

## Central Programs

Apart from the programs by the different Centers, Shiksha Sopan Central team runs various projects and programs. Here are the Central program activities in November 2020.

### **Gyandayini Opan Air Lab (GOAL)**

An open area of about 4000 sq ft has at Sopan Ashram is being developed as a learning place for Science and Mathematics. While 15 cemented desks are installed to conduct theory and experimental classes, the rest of the place will host the Mathematics Park. The backdrop shows painted images of all time great Albert Einstein and Srinivas Ramanujan. These painting were also made by the volunteers of Sopan Ashram Evening Center. Plants of Sarason (Mustered), wheat, potato etc offer a beautiful natural surrounding to GOAL. Surrounding.



### **First Sunday Club of Anveshika**

The first program in GOAL was on 6<sup>th</sup> December. It was a 2-hour session of about 15 Physics Teachers from Kanpur and surrounding places, conducted by SGM-IAPT Anveshika in our collaboration. This is a monthly program of Anveshika conducted on the First Sunday of the month. Because of the lockdown, it was being conducted online for several months but with the Gyandayini Open Air Lab, it was possible to conduct the session with proper social distancing. Teachers were extremely happy with the kind of classroom they had never experienced. The experimental activities including measuring the diameter of the Sun with the help of a convex lens and 15cm scale. It was a simple experimental arrangement and was so exciting to get the value of the



diameter of the Sun within few percent of error with such an easy approach. The other activity was to get the true geographical North direction, again using the Sun.

After the experiments, Question-Answer-Discussion session went on. Dr H C Verma moderated the discussion.

### **Physical Classes for Std 10/12**

As it was difficult to follow the covid-guidelines in our regular classrooms, the physical classes of Sopan Ashram Evening Center were not being held since March Last. With the opening of GOAL Classroom, these physical classes were also resumed (for Std 10 and 12) after a long time. Shree Aman Kumar gave Science and Maths classes to Std 10 students while Dr H C Verma and Shree Ritik Tiwari gave classes to Std 12 students on Physics and Chemistry respectively.

### **Sopan Ashram Visit by eminent personalities**

26<sup>th</sup> December was a very special day for us. Dr H C Verma gave a Physics class to Std 12 students at Gyandayini Open Air Lab and a number of prominent personalities were enjoying the class while sitting behind. These were Dr. R. N. Kapoor, Rtd. Professor of VSSD College Kanpur and founder member of IAPT, Dr. Manish Kapoor, Professor, Christ Church College, Mr. R. C. Gupta, Rtd. Income Tax Commissioner, Dr. T. N. Agarwal, Rtd Professor HBTI and a great businessman, and Mr. G. D. Verma, famous Chemistry teacher.

Each of these is a very successful person and has contributed in the education field. They all enjoyed the ambience of Open Air Classroom and the class by Dr H C Verma.

They visited science galleries, outdoor experiments, Shiksha Sopan Recording studio and other parts of the campus. They all appreciated the efforts of Shiksha Sopan in conveying Science to the society in a very effective manner. Verma sir also discussed future plans of Sopan with them. Dr Verma requested them to suggest towards making Sopan Ashram a famous Science Tourism place in Kanpur.



### **Community Computer Instruction LAB (कोकिला)**

10 tables to host the computer terminal systems in COCILA have been installed in a Hall at Sopan Ashram. We are looking at the available technological solutions for the systems which can support the required load.



## **SGPV Prakalp**

As mentioned in a previous Newsletter, Shiksha Sopan has launched “**Shree Ganesh Prasad Verma Uchch Shiksha Prakalp**” to financially support children going for higher education (beyond Std 12). We got 2 applications in December 2020 for such support. Both were interviewed by the committee headed by Prof A K Sharma, President of Shiksha Sopan, in online mode and the committee recommended for the support. The students are,

1. Pradyuman Tiwari – B.Tech (PSIT, Kanpur)
2. Ishant Dubey – M.Tech (Anna University, Chennai)

Shiksha Sopan wishes all of them a very good career. A total of Rs 96,360 were given to these students.

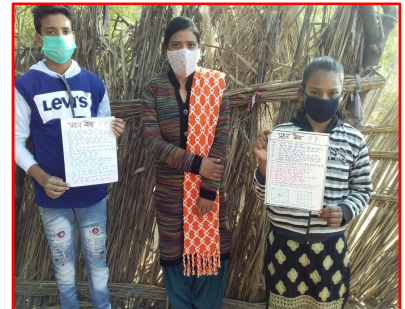
## **Sopan Anaupacharik Shikshan Kendra (SASK)**

SASK always comes out with new ideas. Though it continued to operate in semi online mode, the interactions with the students was quite intense in December too.

### **Prashn Bank**

Questions are always a medium to enhance and encourage the quality of people to think broader. Whatever the teacher teaches to the students, how much students understand the topic is checked only through a question.

By following this ideology Ms. Seema Verma, coordinator of SASK started the initiative to prepare a question bank. In last month of the year on 7<sup>th</sup> December, Seema Ji prepared a question bank consisting of 50 questions related to Hindi, English, Math's, Science. These were distributed among the children and they were asked to solve it in their homes. So that volunteers of SASK could evaluate the performance and make improvements according to it.



### **Math's Working Model**

As everyone knows, Mathematics is an important part of the life. From normal shopkeepers to high rank officers of companies, every one needs to do calculations using mathematics. But in the present time, students have fear while solving maths and to remove this fear teachers should always try to create an interest in Mathematics.

Seema Ji is doing the same and trying to make a strong base of mathematics. She made a working model by which children could understand the basic concepts of multiplication easily. The model



has rotating circular strips of paper mounted on a frame. By rotating the strips appropriately, one can make multiplication equations. This model was appreciated by children because it was easy to make and easy to understand. Children took this mathematics model in their hands and spent their time in solving variety of calculations easily.



## Agricultural workshop

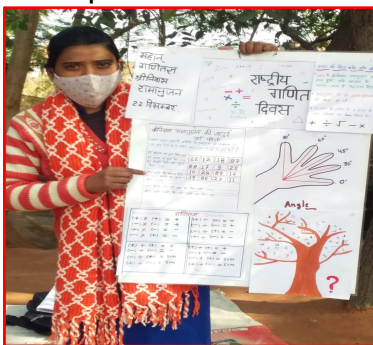
Agriculture is the most important occupation for the economy of our country. During the lockdown, agriculture was the only sector that kept the economy of our country going on. A large part of our population does farming and earn through agriculture. But in the present era, there is a trend to move towards the urban areas leaving farming. The new generation living in cities is unaware of farming. To create curiosity and increase the knowledge about crops, Seema Ji and teachers of SASK conducted an agricultural class on the field. In this class, Seema Ji told the students how a farmer does farming, when and which crops are grown in the field, etc.



## National Mathematics' day

Shree Srinivasa Ramanujan was born in Erode (Tamilnadu) on 22nd December 1887. He is also called the magician of Mathematics. He dedicated his short life of 37 years to Mathematics. Every year, the whole country celebrates his birthday as Mathematics day.

SASK also celebrated his Birthday with full of enthusiasm and remembered him on that day. Seema Ji told the interesting things about the Ramanujan. She told that Ramanujan was an Indian mathematician whose contributions to the theory of numbers was amazing. He made his first crosswords puzzle at the age of 8 and the unique thing about this that sum was 139 weather sum taken from rows, columns, or diagonals. On this occasion, SASK conducted the verbal Mathematics quiz for the students in which students were prohibited from using paper and pen.



श्रीनिवास रामानुजन की जादुई वाणि पहिली				
पहली कतार खस है, क्योंकि वो रामानुजन को जन्मदिनी खस बात चे है कि ये उन्होंने महज 8 साल की उम्र में बना दिया था।				
हर कॉलम का कुल योग 139	22	12	18	87
हर कतार का कुल योग 139				
हर तिरछी रेखा का कुल योग 139	00	17	9	25
कोने के सभी अंकों का कुल योग 139	10	24	89	16
बीच में रखे सभी अंकों का कुल योग 139	19	86	23	11



## Zestful Knowledge

There are various things about our life and our body which everyone should know. Shiksha Sopan always focuses on encouraging the children to take care of the mental and physical health. In this series, SASK conducted a class where children got knowledge about the interesting things related to the environment and life like Vitamins, Minerals, Good Manners, and Discipline, etc.



## Barasirohi Evening center(BEC)

December month was also active for every volunteer and children of BEC. Regular teaching partially started in physical gathering mode and many special days were celebrated. There were various activities done in this month which are given below.

### **Face-to-Face classes**

As the effect of Covid 19 is reducing, BEC decided to start face-to-face classes at the center. To start with, selected students of 10<sup>th</sup> & 12<sup>th</sup> were called at the center since December 1. These are students who will face Board examination in coming months. A total of 8 to 10 students were called who needed more support. Students as well as the volunteer strictly followed the Covid 19 guidelines as seen in the picture.



### **National Flag day**

To give tribute to the our Defense persons, whole country celebrated the Flag day on 7<sup>th</sup> December We can sleep fearlessly only because our soldiers are working so hard at the borders in extreme conditions. This flag day is to express that all our country people are always with our soldiers. At the center, Geeta ji celebrated this with full of enthusiasm and dedication. Geeta ji told the students about the importance of this day and why we celebrate this day.

### **National Human Rights day**

India celebrates the National Human Rights day on 10<sup>th</sup> December every year but not many people are aware about this day. In India every human being has some rights which people should know so that they can use them. To give the message of human rights to the children of BEC, Geeta Ji celebrated this day and gave information about our rights which are mentioned in the constitution.

### **National Mathematics day**

On this occasion of the birthday of the all time great Indian mathematician Shree Srinivasa Ramanujan, 22 December, BEC arranged special Mathematics session. Our BEC volunteer Mr. Pushpendra conducted a quiz competition based on Mathematics for the children.



### **Geeta Jayanti**

On 25<sup>nd</sup> December, BEC celebrated GEETA Jayanti. Ms. Geeta Kushwaha explained some Shlokas of Geeta to the students. She focused on the Shloka कर्मण्येवाधिकारस्ते मां फलेषु कदाचन which forms a guiding principle for the society. She explained the meaning of the shloka and advised the students to follow this in their lives. On this occasion, students made beautiful drawings of Krishna Arjun Samvaad



## Sopan Library

The library started opening from 1st December with reduced numbers due to Covid. Many children needed Library to augment the classes in their schools and this offline mode was a great help. Some new Books were also purchased for the Library in this month. There was also a proud moment for the Library as two of the Library students, Miss Alka Pal in Nursing secured 80% and Mano in Polytechnic secured 82%. Library Celebrated Tulsi Diwas and Christmas day with students and distributed sweets among them. One of the Library student Miss Priti gave classes on Sketching to the other fellow students. In the sketches, Students displayed the bad effects of Covid.

## Sopan Ashram Evening center (SAEC)

SAEC also started offline class for 10<sup>th</sup> and 12<sup>th</sup> and came up with other activities. SAEC publishes their separate report SAMVAD which is attached with this Newsletter. Some highlights of SAEC work in December are given below.

- From 18<sup>th</sup> December offline class for 10<sup>th</sup> & 12<sup>th</sup> students were started at GOAL. These were mainly given by Dr. H C Verma, Mr Aman Prasad and Mr Ritik Tiwari. Proper social distancing and Covid guidelines were followed.
- On 19<sup>th</sup> December Volunteers meeting took place to discuss the future road map.
- On 22<sup>nd</sup> December, National Mathematics Day was conducted with the children.
- Plantation was done on the occasion of Atal Bihari Bajpai's Birthday that is 25<sup>th</sup> December.

---

**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*