

Shiksha

Sanskar

Swavalamban

Shiksha Sopan

An Initiative of IIT Community for social upliftment

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Newsletter July 2015



The month of June represents the peak of burning heat at Kanpur. This year also, it offered unbearable heat with temperature soaring to about 45°C most of the time. Sopan Anaupcharik Shikshan Kendra and Evening centers were closed most of the time in this month. However, the team of Sopan had ample work to do. Most hectic and heroic was organization of National Workshop of Utsahi Physics Teachers-2015 at IIT Kanpur and Pratibha Poshan Yojna Summer camp.

National Workshop of Utsahi Physics Teachers, (NWUPT-2015)

A six-day workshop on Physics teaching at school level (2nd June- 7th June, 2015) to train school teachers to use innovative experiments and style in their teaching was organized at IIT Kanpur. Entire academic and management task was performed by Shiksha Sopan. The workshop was inaugurated in the Visitors Hostel of IIT Kanpur. Prof. Indranil Manna, Director, IIT Kanpur, Prof. Ravindra Dhar, Scientist, NASI-Allahabad and Prof. Pankaj Jain, Head of Department, Physics, IIT Kanpur were the Chief



The Lamp of Knowledge was lighted by Prof. Indranil Manna, Prof. Ravindra Dhar, Prof. Pankaj Jain and Prof H C Verma, the coordinator NWUPT -15. Prof H C Verma introduced the concept of this project and laid down the background of the workshop. He also gave the brief introduction of Shiksha Sopan and their activities in the inaugural programme of the workshop.

Prof Indranil Manna, welcomed all the participants to IIT Kanpur and inspired them to work for improving Science education at grassroot level. Prof. Ravindra Dhar told about the activities of NASI in Science enrichment in INDIA. Prof Pankaj Jain also welcomed the participants on behalf of Department of Physics. Prof H C Verma gave the vote of thanks. The whole program was anchored by Mr Amit Kumar Bajpai.

Shiksha Sopan Science Cell was working for about a month on developing new experiments and activities for the workshop. A lot of short experiments were designed which can be used during the classroom teaching. Some activities were designed where measurement skills were involved. The most interesting were Informal Lab Activities where the teachers were supposed to investigate on their own on the suggested topics. Sopan team designed, assembled and tested all these experiments before finalizing for the workshop.

Shiksha Sopan Joint Secretary Anurag Pandey Ji gave a ppt presentation on Shiksha Sopan activities to the participants. All of them greatly appreciated the selfless work being done by the Shiksha Sopan volunteers for the betterment of the economically weaker section of the society.

A cultural program of 2 hours was put up by Shiksha Sopan children and volunteers from all centers especially for NWUPT participants. Children from Sopan evening center, SAC center and also from Barasirohi center put up their eye catching performances.



One after other, many NWUPT participants showed their gratitude towards Shiksha Sopan in general and Dr H C Verma in particular. They expressed their deep appreciation of the commitment with which Sopan workers were managing all aspects of the workshop. Mr Arvind Pathak presented donation for Shiksha Sopan collected from all participants to Dr H C Verma.

Mr Amit Kumar Bajpai with Mr Anurag Pandey looked after the overall management of the workshop. The science cell members Mr Ranjit Kumar, Mr Deepak Mishra, Mr Vimal and Mr Atul took care of the academic activities. The whole workshop was video shot by Mr Vipin Sharma.

Visit to SGM-IAPT-Anveshika

Participants of NWUPT-2015 visited SGM-IAPT-Anveshika, on 05th June, 2015 at Indira Nagar, Kanpur. Many experiments were demonstrated by some expert teachers. All the participants learnt so many concepts from these experiments. Dr Sanjay Sharma from IAPT (Indian Association of Physics Teachers), gave a brief introduction of Anveshika and told about its activities.



Pratibha Poshan Yojna (Summer Camp)

Introduction and Inauguration

Shiksha Sopan organized a summer camp for 11 children of third batch of Pratibha Poshan Yojana (Senior). They are now studying in class 9th. These children have been selected through a two-level examination conducted by Shiksha Sopan and Talent Development Council (TDC). The complete details related to the examination have been given in the news letters of April and May 2014. Now this is the second summer camp of these children. We conducted the camp at IIT Kanpur, Type-3, House No. 3026 from 10th June to 30th June, 2015.

The inauguration of the camp was held on 10th June at House No 3026, IIT Kanpur. The children came with their parents on that day. Inaugural function started by Dr Anurag Tripathi, Assistant Professor Chemical Engineering Department, IIT Kanpur. Mr Anurag Pandey, Joint Secretary, Shiksha Sopan introduced Pratibha Poshan Yojana and told that this is an effort to reach out to the unprivileged, but talented students and nurture their skills. He also explained the camp's schedule to the children and their parents. The children were excited for the summer camp. The inauguration ceremony ended with a delicious lunch.



Regular Classes

In the Camp there were many well thought programmes to give the children exposure to technology and also our cultural and traditional knowledge base. Lots of interaction with dignitaries from various fields were arranged. We planned to teach children in a non-traditional way. We included speed mathematics, Hindi, and English in the academic curriculum. Speed mathematics and puzzles were included to enhance children's mathematical calculations and to sharpen their logical and rational thinking. Ms Nirupma of Opportunity School, IITK, taught speed mathematics in an interesting way. The children enjoyed this subject the most. Mr Rohan, IITK student had given the classes of music. English was also taught in the camp. The purpose was to improve their grammar, vocabulary and sentence composition. These classes were taken by Mr Suresh Ailawadi, consultant, CE Department. Dr H C Verma, Professor, Physics department had also given classes in a very interesting manner on mathematics and told about basics of differential calculus. By using a paper and salt he taught them that how to find maximum volume of a cuboid.

Special Classes

(a) Astronomy

Mr J. P. Chaturvedi, former Head of the department, Gorakhpur University had taken the classes of astronomy. He told about moon's positions, different stars and their constitutions. Using a telescope he showed different stars to the children. Children learnt about the planets, galaxies, binary-stars. All the children enjoyed it.



(b) Yoga Classes

Mr S. L. Yadav, had given classes on yoga at house number 512, IIT Kanpur. International yoga day was also celebrated at IIT Kanpur and all these children participated in this program. They enjoyed these classes very much and made a commitment that they will do it regularly.



(c) Visit to Science City , Lucknow

Shiksha Sopan organized a visit to Regional science City Lucknow on 28th June for all the children. Children were excited to see so many interactive science exhibits on Physics, Biology, Astronomy and other areas. The peculiar images in mirrors with different curvatures were most enjoying. All participants were taken to 2 film shows, one 3-D picture and the other SCIMAX. For 3-D picture, proper polarizer glasses were given which gave the real 3-D effect. SCIMAX movie was projected on a hemispherical dome and had to be seen looking in different directions including upwards, as the characters moved around. Both the films were adventure based and the children enjoyed them thoroughly.

Other Informations

Web site : For more details please visit www.shiksha-sopan.org

How to donate: *Shiksha Sopan*

(a) You can pay through credit/debit card by going to www.godparents.in, clicking "support a child" from the left top panel, selecting Shiksha Sopan from the "caretaking NGO" list at the bottom left of the page and then selecting a child from the list. Click on "Be my Godparent" below the photograph.

(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://indolink.com/iitk/> to donate through IIT Kanpur foundation using credit cards.

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