

SCIENCE ON WHEELS

Birla Industrial and Technological Museum, the pioneer Science Museum in India, is engaged in dissemination of science to the people at large since 1959. Among the wide variety of avenues it had embraced till now for carrying on this noble activity, the medium of Mobile Science Exhibition contained in museobuses was a path breaking inclusion. While the urban and the semi-urban masses are catered through permanent science museums/centres in cities and towns, the need to bring the rural people under the purview of science saw the first of the mobile science units roll out of BITM in the year 1965. Since then, 22 such units operate under National Council of Science Museums, the parent body of BITM and 27 other science museums and centres across India.



These MSE units criss-cross the entire length and breadth of the country, 9 months in a year, carrying the message of science to the remotest corners.

Learning Science through Fun

Meticulously selected, the set of 24 specially designed participatory exhibits in the museobus on the theme 'Fun Science' introduces the visitors

to some of the basic principles of science through fun and enjoyment. With multiple options to choose from, the inquisitive mind of the young and old is kindled leading to science education in lighter mood.

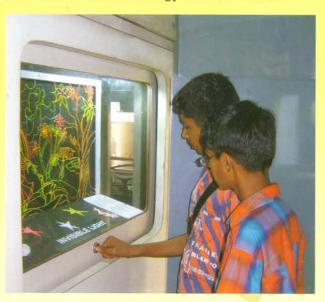
The exhibits

The exhibits displayed in the mobile 'Fun Science' exhibition can be broadly divided into groups, such as, Optics, Sound, Pendulum, Sympathetic Oscillation, Motion, Defying Gravity, Electromagnetic Induction and Electronic Games.



Some of the exciting exhibits on optics are Addition of Colours, Subtraction of Colours, Nipkov's Disc, etc. Bucket Radio shows generation of sound and the effect of a medium. Through the exhibit Musical Pipes the visitors will be able to enjoy the melodious sounds of various pitches emanating from the pipes of different lengths. Working principle of a Pendulum has been explained in an interesting manner in the Snake Pendulum. The nature of transfer of vibration from one body to another through an interconnection has been displayed through exhibits on Single

Sympathetic Swing, Double Sympathetic Swing and Sympathetic Vibration. The Roller Coaster will show how potential energy can be converted to kinetic energy and vice versa.



Principles related to electromagnetic induction have been explained through the exhibits Jumping Disc and Grand Shuttle. Mathematical Theorem of Pythagoras has been substantiated through a simple but meaningful exhibit. There are two interesting electronic exhibits on Logic Gates and Tic-Tac-Toe. There is a cone that runs uphill by apparently defying gravity.

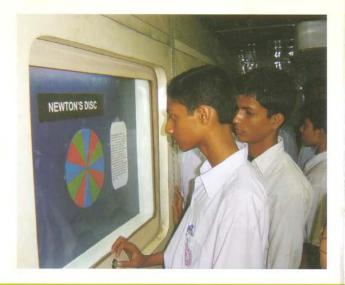
The Mobile Science Exhibition is backed up by relevant *Science Demonstration Lectures* and *Quiz* programmes.





List of Exhibits

Newton's Disc *Colour Subtraction *Invisible
Light *Nipkov's Disc *Musical Pipes *Bucket
Radio *Snake Pendulum *Chaos *Transfer of
Momentum *Sympathetic Vibration
*Single Sympathetic Swing *Double
Sympathetic Swing *Roller Coaster *Loop the
Loop *Express Route *Racing Wheels
*Cone Runs Uphill *Rising Arc *Jumping Disc
*Grand Shuttle *Lazy Channel *Logic Gates
*Tic-Tac-Toe *Pythagoras Theorem



Visit Birla Industrial & Technological Museum



If you have found the MSE on 'Fun Science' exciting then why stop here. Be in Kolkata and visit BITM. It can offer you umpteen exhibits, which will make science learning an enjoyable venture. They are contained in galleries on Motive Power, Transport, Popular Science, Biotechnology, Communication, Electronics, Life Science, Mock-up Coal Mine etc. The show held regularly on Taramandal is surely a treat on astronomy. Other training and demonstration programmes on different branches of science are a big hit, especially among the students community. And to ice it all, there are Science Fairs and exciting Temporary Exhibitions held from time to time. These varied efforts, along with Mobile Science Exhibitions, are focused to attain the primary objective of BITM, i.e., building a scientific temper among the masses. Twenty-seven other science museums/centres under NCSM are also there to offer you similar exposure.





Birla Industrial & Technological Museum

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