



Science Festival

Introduction

National Science Centre Delhi, is a constituent unit of National Council of Science Museums, functioning under the Ministry of Culture, Govt. of India. The Council is primarily engaged in science popularization among the people of the Country in general and students in particular. The National Council of Science Museums (NCSM) through its 27 Science Centres/Museums, spread across the country, imparts science education in a non-formal way. Annually Science Centres are visited by over 60 lakhs visitors.



Why are Science Festivals organized

Students and public in urban areas have more opportunities to visit nearby Science Centre and participate in the activities whereas students and public in rural areas do not have access to such facilities. Hence it is a activity service by the National Science Centre for making general public informed of science, inspired by its wonder, convinced of its value and making them ready to engage with its implications for the future.

Major Components of the Science Festival

1. Mobile Science Exhibition

The exhibition is carried on a specially designed bus. The MSE unit is accompanied with three staff members for conduction of exhibition in schools. The MSE bus is presently carrying exhibition on 'New and Renewable Energy Sources' supported with films.

2. Science Shows

We have a programme called the SCIENCE SHOW where our demonstrator performs and explains a set of exciting experiments on themes like Liquid Nitrogen, Unexpected Science, Sound Show, Balloon Show, Science through Human Body, Creative Chemistry etc. The experiments produce startling and amusing results.

3. Taramandal Shows

Taramandal is a portable mini planetarium with an inflatable dome and simple projection equipment providing an opportunity to promote interactive learning of elementary astronomy. It could also serve the purpose of an improvised dark room for conducting scientific experiments requiring dark room facilities.



4. Fun Science Exhibits

Science has always been a subject which has been dealt with a lot of seriousness in schools. This text bookish approach has made science a very drab and uninteresting subject in the impressionable minds of young children. These exhibits seek to escape from this trap by the method of KISMIF (Keep It Simple- Make It Fun). Exhibits are interactive and hands-on

5. Sky Observation : Celestial Cinema 360°

Sky Observation activities are normally conducted during winter months. The Centre has a top class refracting telescope using which astronomy experts conduct sky watching sessions for students and general public at night. Identification of constellations and other celestial bodies, observation of special events like meteor showers and eclipses etc. are part of this programme.

6. Teachers Training Workshops

Teachers' Training Programme envisages opportunity for exposure of Teachers' to tools, raw materials and techniques as well as ideas for developing low cost teaching-aids with ultimate goal of build your own laboratory. Teachers are encouraged to use low-cost teaching aids to supplement their lecture in the class room.

7. Robotics

The latest addition in the Science Festival package is Robotics. Students learn application of Robots, basics of movement, controlling of direction, PCB assembly of robot, programming on computer and fusing program on microcontroller chip.

8. Popular Science Lecture

The objective of the lecture is to bring students and renowned Scientist, Academician and Professional from different fields of science & technologies on a common platform so that students get chance to interact with them and get the latest updates and information. This interaction would ultimately help students to choose a better career in their life. Topics for the popular science lectures may be Artificial Intelligence, Augmented Realities, Cloud Computing, IT and Social Media, IT and Telemedicine, Robotic, Biotechnology etc.

9. Schedule of the Activities

| | 9.00am -12.30pm | 2.00pm -4.00pm | 6.00pm -7.30pm |
|-------|---|---|-------------------------------------|
| Day 1 | Inauguration, Science Show, Science Exhibition and Mobile Science Exhibition(MSE) | Teachers Training Workshop | Sky Observation and Taramandal Show |
| | Session on Robotic | ----- | ----- |
| Day 2 | Science Show, MSE and Science Exhibition | Teachers Training Workshop | Sky Observation and Taramandal Show |
| | Session on Robotic | ----- | ----- |
| Day 3 | Science Show, MSE , Science Exhibition and Science Quiz | Teachers Training Workshop | Sky Observation and Taramandal Show |
| | Session on Robotic | ----- | ----- |
| Day 4 | Session on Robotic | Cultural Programme and Valediction Ceremony | |

10. Duties and Responsibilities

The National Science Centre will take following responsibilities for organizing a Science Festival.

- I. Identification of activities and programmes.
- II. Staff deputation by the Centre for conducting three/four days Science Festival at the venue.
- III. The team of the Centre will bring along with them all materials required for various programmes/activities. Taramandal Set, Fun Science Exhibits, Telescope, Prizes for Science Quiz MSE Bus and Science Show sets may be part of the programme.
- III. National Science Centre will bring publicity banners for the venue.

The collaborating agency/school/institution will be responsible for the following items

- I. Selection of a suitable site for Science Festival, where students and public can have easy access.
- II. Cost of transportation of exhibition materials and other expenses will be borne by the collaborating agency.
- III. Deputation of a nodal officer for monitoring/consultation for day to day programme. Engagement of 25 student volunteers.
- IV. Arrangement of local publicity in media, schools, colleges etc.
- V. Arrangement of students and public visit to the site and daily cleaning/maintenance of the necessary amenities at the site.
- VI. Arrangement of a room stay of the team and keeping material/equipment related to the Science Festival.
- VI. Arrangement of a computer lab with minimum 10 computers for organising workshop on Robotics.

The above duties and responsibilities are only indicative and may be discussed for final arrangements.

