

Monthly Descriptive Report of Programmes and Activities organized at Nehru Science Centre, Mumbai in the month of October, 2022

NEHRU SCIENCE CENTRE, MUMBAI

Sci-Birthday

During this month 02 science birthdays were organized at the Centre. On 01.10.2022, 60 children and parents joined the celebration and on 23.10.2022, 30 kids with parents joined for the celebration. They enjoyed the 3D show, motion simulator show, Science on sphere & Science Demonstration show.

Digital Literacy Programme for Teachers:

The Centre is conducting a Digital Literacy Programme for Teachers in collaboration with S. R. Dalvi (I) Foundation. This is an Online programme which is being conducted every Saturday from 5.30 pm to 7.00 pm. The registration of teachers was done by S. R. Dalvi (I) Foundation and programme is being conducted by the faculty of NSC, Mumbai.

Throughout October 2022, four sessions were conducted covering following topics:

- **01.10.2022 - Using Google Tools:**

Google Presentation – Making slide presentation using text, pictures & video. Insert Tables, Pictures, Other shapes, Charts & Graphs. Insert video from drive or from YouTube, Add Transition effects & Animation effects to make presentation attractive, Share Presentation & Print slides 246 teachers participated in this programme

- **08.10.2022 - Using Internet Tools:**

Types of Browsers to see Internet, what are Domain names, Use of Emails for communication, Attachments in email, Google account & how versatile it is, Online storage, Blog sites, Dictionary & Thesaurus. 253 teachers participated in this programme.

- **15.10.2022 - Using Google Tools:**

Google Forms – Creating forms with text, pictures, video, etc. How to insert Header Image, Add Question with short answer, long answer, paragraph, multiple choice, checkboxes, drop-down etc. How to allow user to upload file & check file responses. How to add title, image, video, section etc. How to set form duration, share it with user's email IDs or send link using WhatsApp/Facebook etc. 215 teachers participated in this programme.

- **29.10.2022 - Using Multimedia Tools:**

Canva: What is Canva? How to create professional looking designs using Canva? What are advantages & disadvantages of using Canva? How to make Presentations, videos, whiteboards, Posters, Logos etc. How to use templates or add elements like sticky notes, lines & shapes, graphics, videos, charts, tables, frames or other collection etc.

Video Editor: What is Video editor? How to create, edit & transform videos. How to add title card, Trim & split video & Add text, motion, 3D effects, filters to a video, Change speed of a video. How to add Background music, custom audio to your video & export the finished video. 215 teachers participated in this programme.

World Space Week celebration

The Centre organized 2 Popular Science Lectures (PSL) to commemorate World Space Week in collaboration with Space Geeks and Indian Space Industries Exhibitors. The theme for this year was Space and Sustainability.

1. **PSL on 'Artemis Mission: Humanity's Return to the Moon'**

On 01.10.2022 an online PSL on the topic 'Artemis Mission: Humanity's Return to the Moon' by Jaydeep Mukherjee, Director, NASA Florida Space Grant Consortium, was conducted on Zoom platform and was streamed on Facebook page of the Centre. The response was overwhelming and we received more than 850 registrations. The zoom meeting was full to its capacity throughout the lecture. The Facebook reach for the lecture is 795.

2. **PSL on 'Mars calling! Updates from Mars Perseverance Rover'**

On 03.10.2022 an online PSL on the topic 'Mars calling! Updates from Mars Perseverance Rover' by Dr Jenifer Blank, Astrobiology Research Scientist, Division of Space Sciences &

Astrobiology, NASA Ames Research Centre was organized. The lecture was conducted on zoom platform and was simultaneously streamed on the Facebook page of the Centre. The Facebook reach of the event was 1079.

04 Popular Talks in Offline/ Online mode.

1. An interactive session titled '**Customer Experience: A Happiness Story** - How does customer centricity help an organization to Spread happiness' was held for the Staff of the Centre on 07.10.2022 in the Auditorium of the Centre. Shri Mandar Kanvinde, Director, CEM BRAND Capita Pvt. Ltd conducted this interesting session. Through several examples he explained how enhanced customer experience helps to create a Brand for a company. A total of 50 staff members attended this session.
2. To celebrate National Cyber Security Awareness Month, the Centre organized an Online Popular Talk on the topic **Securing the Digital Presence with Proactive Cybersecurity & Privacy Tactics** on 28.10.2022 at 11:00 am. The lecture was delivered by Mr. Sukrit Ghosh, Sr. Manager, Data Security Council of India. A total of 23 participants joined on Zoom platform and 404 participants watched the Facebook stream of the Lecture.
3. The Centre has organized an Online Popular Talk to celebrate **National Cyber Security Awareness Month** in Hybrid mode on 31.10.2022 at 03:00 pm. The lecture will be delivered by Prof. Virendra Singh, Dept. of Electrical Engineering & Dept. of Computer Science & Engineering at IIT Bombay. A total of 225 students have registered to attend the offline lecture at the Auditorium of the Centre. 109 participants have registered for attending Online. The lecture will be streamed on Facebook page of the Centre as well.
4. To celebrate National Cyber Security Awareness Month, the Centre has organized a Popular Talk for the Officials of the Centre and its SU's on the topic **Network Administration & Security** on 31.10.2022 at 04:30 pm. The lecture will be delivered by Prof. Sandhya Desphande, COEPS Cell Convenor, K. J. Somaiya Institute of Engineering and Information Technology, Mumbai.

Hands-on Workshop on Friction

The Centre developed and designed a customized workshop on the topic 'Friction' on a request from Ecole Mondiale School, Juhu, Mumbai. The entire programme comprised of:

1. Visit to the galleries & science Park (friction related exhibits at the Centre)
2. Science Demonstration based on Friction
3. Hands-on activities

The workshop was conducted on 17.10.2022 for a group of 18 students and 4 teachers.

Online Quiz on Dr. APJ Abdul Kalam

On 15.10.2022 to commemorate the Birth Anniversary of the great missile Man of India and our former President, Dr. A. P. J. Abdul Kalam, the Centre conducted an online quiz on the topic Dr. A P J Abdul Kalam and his contribution to India. The quiz was open for all from 12:30 am to 10:30 pm. In all 599 participants attempted the quiz.

Partial Solar Eclipse

The Centre organized a Partial Solar Eclipse observation programme on 25.10.2022 from 04:15 pm to 05:00 pm. The programme was organized in hybrid mode. The registered participants joined us at the Centre for viewing the partial Solar Eclipse through the telescope and through other safe modes such as solar goggles, reflected images etc. The field view of the Sun from the telescope was streamed on the Facebook page of the Centre. Shri Umesh Kumar, Director, Nehru Science Centre, explained the scientific phenomena behind eclipses and also shared some interesting facts about the same. He also mentioned the demystifying facts about the prevalent myths. 464 kids/enthusiasts witnessed this event by joining us at the Centre and the Facebook reach of the event was 4684.

Innovation Hub Sessions:

The Centre started a new batch of Integrated Science at the Innovation hub from 29.10.2022. In all 12 sessions will be held during October to December 2022. 36 students enrolled for the membership. During this month 2 sessions were conducted. The members were introduced to the basic understanding of Innovation, activities based on the out of the box thinking, Power of collaboration were conducted these 2 sessions.

Online Workshops:

1. **Paper Planes:** The participants were explained the principles of flight and they learnt six different types of paper planes namely Tail Plane, Harrier, Ring Plane, Dart Plane, Bulldog Dart Plane & Stealth Plane. The Online workshop was conducted on 29.10.2022 and 10 students participated in this online workshop.
2. **Soap Bubble Workshop:** The participants enjoyed making bubbles of different shapes and sized in this workshop. Students were explained the reasons behind formation of bubbles, their bursting and their change in shapes and sizes. The workshop was conducted on 30.10.2022 and 12 students participated in this online workshop.
3. **Lantern Making Workshop:** On the auspicious occasion of Diwali, Centre organized a Lantern Making workshop on 21.10.2022 from 04:00 pm to 05:30 pm. 20 Students participated in this workshop.

Vigilance Awareness Week: Vigilance Awareness Week is being observed at the Centre from 31.10.2022 to 06.11.2022.

1. **Oath Taking Ceremony:** The Centre organized an Oath taking ceremony for its Staff members on 31.10.2022. 79 Staff members attended this ceremony.
2. **Open House Quiz:** The Centre conducted an Open House Quiz for public on 31.10.2022. Questions related to Vigilance Awareness were asked to students and general public.
