

## Monthly Descriptive Report of programmes and activities organized at Nehru Science Centre, Mumbai and its Satellite Units for the month of August, 2024

### NEHRU SCIENCE CENTRE, MUMBAI

#### Innovation Hub Sessions

The following sessions were conducted for 22 members of Innovation Hub:

- **Tod-Fod-Job Session (03.08.2024)**  
The Tod-Fod-Job Session offered a hands-on exploration of computer hardware, guiding participants through the intricacies of components such as the CPU and motherboard. Attendees learned practical skills for safely assembling and disassembling computers, gaining essential troubleshooting and repair knowledge. The interactive Q&A with experts further enhanced their understanding of computer hardware.
- **Introduction to AI (10.08.2024)**  
The Introduction to AI session provided a foundational overview of artificial intelligence, covering essential concepts like computer languages, machine code, and basic machine learning principles. Participants were introduced to various computer languages used in AI development and explored fundamental machine learning algorithms, setting the stage for advanced AI studies.
- **DIY Science Experiments (17.08.2024)**  
During the DIY Science Experiments session, participants engaged in hands-on science activities designed to foster curiosity and practical learning. The session emphasized the application of scientific principles through simple experiments, encouraging creativity and problem-solving skills while deepening participants' interest in science.

Additionally, one more session is scheduled for 31.08.2024.

#### Har Ghar Tiranga Campaign as Part of the 78<sup>th</sup> Independence Day Celebration

The Centre commemorated India's 77th Independence Day with a series of engaging events and contests from 09.08.2024 to 15.08.2024, capturing the spirit of patriotism and knowledge. This initiative aimed to involve participants in a celebration that reflected the values of freedom and creativity. The events were as follows:

- **Film Screening at the Centre**  
In collaboration with the Films Division and the National Film Development Corporation (NFDC), a film show was organized, featuring two films: Our Flag and Flag Freedom. These films were viewed by 51 students, providing them with a cinematic experience that underscored the significance of the national flag and the concept of freedom. The film was also shown in three other notable locations: the video wall at the campus entrance gate, the reception area, and the TV placed across the 3D show facility. These films were watched by 61 general visitors.
- **Chalte Chalte Quiz on Tiranga (11.08.2024 to 15.08.2024)**  
From 11.08.2024 to 15.08.2024, the Centre hosted an on-the-spot quizzes titled Chalte Chalte Quiz, focusing on Indian science and technology post-independence. The quiz saw enthusiastic participation from approximately 1,305 individuals. Prizes were awarded to the winners on the spot, making the event both competitive and rewarding for participants.
- **Tiranga Exhibition (14.08.2024 & 15.08.2024)**  
An exhibition on the Evolution of the Tiranga was held at the Centre on 14.08.2024 & 15.08.2024. The exhibition attracted around 1,522 visitors, offering a historical perspective on the development and symbolism of the Indian national flag.

- **Pledge Taking Ceremony and Singing Contest (Patriotic Songs) on 12.08.2024**  
A pledge-taking ceremony was conducted at 11:00 a.m. at the Museum Gate of the Centre, aimed at fostering a sense of unity and patriotism among the participants. Later in the day, beginning at 4:00 p.m., the Centre hosted cultural performances centered on a patriotic theme. These performances included inspiring patriotic songs and eloquent poem recitations. Approximately 65 officers and staff members participated in both ceremonies.
- **Selfie Point at the Gate of the Centre**  
A Selfie Point was set up for visitors to capture selfies at the Museum Entry Gate, accompanied by a canvas wall where visitors could write messages in support of the Har Ghar Tiranga (HGT) campaign. Additionally, a kiosk was placed near the reception area of the Centre, allowing visitors to upload their selfies.
- **Online Quiz on Indian Science & Technology (Post-Independence)**  
An online quiz focusing on Indian Science & Technology since independence was held on 14.08.2024 and 15.08.2024. This educational quiz enabled participants to deepen their knowledge and awareness of India's scientific advancements post-independence. The quiz was attended by 459 participants.
- **Science Demonstration at Xperia Mall, Dombivli**  
As part of an outreach program, a demonstration titled "Colorful Chemistry" was conducted at Xperia Mall, Dombivli, Dist. Thane, on 15.08.2024. Three shows were held, attracting a total audience of 6,789 people, who were engaged and educated through interactive chemistry demonstrations.
- **Tiranga March in the campus of the Centre**  
Following the flag-hoisting ceremony, the Centre organized a Tiranga March on its campus to foster a spirit of patriotism among participants as they marched with the national flag. The participation of the Centre's officers and staff highlighted their dedication to educational partnerships and national pride. The march, which included 132 individuals, symbolized unity, progress, and the true essence of Independence Day.

### **Xperia Science Fair at Xperia Mall, Dombivli**

The Science Fair held at Xperia Mall from 09.08.2024 to 25.08.2024 was a tremendous success, featuring a wide array of scientific concepts and interactive activities. Below is a summary of highlights and visitor engagement:

- **Science Exhibition**  
The exhibition included 08 displays on various scientific concepts, such as the value of pi, Newton's Cradle, vortex dynamics, Jumping Disc, and optical illusions. From 09.08.2024 to 25.08.2024, the exhibition attracted a total of 31,077 visitors.
- **Science Demonstrations**  
A total of 26 liquid nitrogen shows were organized, drawing in 13,660 visitors who were fascinated by the demonstrations.
- **Make & Take Activities**  
Children enjoyed participating in DIY science projects that they could take home. From 09.08.2024 to 25.08.2024, a total of 4,052 kids participated in these activities.
- **Science Workshops**  
Several workshops focusing on various aspects of science were conducted for students, including "Joy of Doing," "STEAM Workshop," "Creation with Creature," "Science Sparkle," "Science Ke Funday," "Science Around Us," and "Wonders of Chemistry." A total of 194 participants were part of these workshops. Moreover, 14 families attended the "Science Ke Funday" family workshop.

## Space Week Commemoration

National Space Week was commemorated with great enthusiasm from 16.08.2024 to 23.08.2024, coinciding with the historic moment when Chandrayaan-3 successfully achieved a soft landing on the Moon's south pole. The week-long celebration included various events aimed at engaging and educating the public about India's space missions.

- **Panel Exhibition on Chandrayaan Missions**

A panel exhibition detailing India's journey to the Moon through the Chandrayaan missions was set up and open to the public from 16.08.2024 to 25.08.2024. The exhibition attracted approximately 2,532 visitors, providing them with an in-depth understanding of the nation's achievements in space exploration.

- **Guided Tours of the Hall of Aviation and Space**

Throughout the week, around 54 guided tours of the Aviation and Space Gallery were conducted, featuring two new exhibits focused on the Moon mission. These tours were attended by 2,556 visitors who gained insights into space technology and India's space endeavors.

- **02 New Exhibits in the Gallery of Aerospace**

- **"Moon First Step"**: This exhibit delves into the scientific reasons why footprints on the Moon remain preserved for extended periods. It provides an in-depth explanation of the Moon's surface conditions and the factors contributing to the longevity of lunar footprints.
- **"The Crater Copernicus"**: This exhibit focuses on the Copernicus crater, offering insights into its significance and geological importance. It explores the crater's impact on our understanding of lunar geology and its role in the broader context of space exploration.

- **Space Rangoli Contest**

On 20.08.2024, a Rangoli contest with the theme "Indian Space Missions" was held. 14 participants created beautiful Rangolis to showcase their artistic interpretation of India's space achievements.

- **Online Quiz Contest**

An online quiz contest titled "Touching the Moon" was conducted on 20.08.2024, from 10:00 AM to 5:30 PM. The quiz had 413 participants who tested their knowledge on various Moon missions.

- **Painting Contest**

A painting contest was held on 21.08.2024, divided into two distinct categories, encouraging students to express their creativity through art related to space themes:

- **Category A (5<sup>th</sup> to 7<sup>th</sup> Standard)**: The theme for this category was "Journey to the Moon." A total of 32 students participated, illustrating their interpretations of space travel and lunar exploration.
- **Category B (8<sup>th</sup> to 10<sup>th</sup> Standard)**: This category focused on "Future of Space Exploration." A total of 27 students participated, presenting their visions of future space missions and advancements.

- **Water Rocket Demonstration**

From 20.08.2024 to 23.08.2024, water rocket demonstrations were held, demonstrating the principles of rocket launching using water as a propellant. A total of 1,211 participants attended 22 shows, learning about the fundamentals of rocket science in an engaging and interactive manner.

- **Satellite Model Making Workshop**

A satellite model-making workshop was conducted on 21.08.2024, with 36 students participating. They constructed models of the Aryabhata satellite and learned intriguing stories about its creation and ISRO's achievements. All participants were awarded certificates.

- **Model Rocketry Workshop**  
A model rocketry workshop was organized for high school students on 22.08.2024 and 23.08.2024. A total of 21 students participated, learning the fundamentals of rocket science, including building and launching their own rockets.
- **Science on a Sphere Show**  
A new Science on a Sphere (SOS) show was developed to highlight India's achievements in Moon missions. A 15-minute video presentation detailing the Chandrayaan missions was created specifically for this program. The video was presented in 21 SOS sessions, drawing a total of 965 participants who gained a deeper understanding of India's space exploration endeavours.
- **Popular Science Lecture and Prize Distribution**  
The week concluded on 23.08.2024 with a popular science lecture by Shri Arvind Paranjpye, Director of Nehru Planetarium. He shared fascinating stories about the evolution of India's space program. The event was attended by 287 students and teachers from various Mumbai schools. The lecture ended with a prize distribution ceremony, celebrating the achievements of participants across all contests. The lecture was streamed on Facebook page of the Centre as well which was viewed by around 4,403 virtual audience.

### **Inauguration of New Activity 'Exercise in Innovative Thinking'**

The Centre in collaboration with Marathi Vidnyan Parishad, Mumbai, inaugurated a new series of 'Activity-Based Science Learning' titled Exercise in Innovative Thinking for school students on 21.08.2024. The inauguration took place at Nehru Science Centre, Mumbai, with Padma Vibhushan Prof. M. M. Sharma, Former Director of the Institute of Chemical Technology, Mumbai, serving as the Chief Guest. Padma Vibhushan Dr. Anil Kakodkar, Former Chairman of the Atomic Energy Commission, was the Guest of Honor. The event was graced by the presence of Padma Bhushan Prof. J. B. Joshi, President of Marathi Vidnyan Parishad, Mumbai.

12 students participated in the inaugural batch of the program, where they were provided with materials for conducting physics experiments. The students were encouraged to develop their own procedures to perform the experiments and draw conclusions by altering different parameters. A subsequent batch was organized for 20 students on 28.08.2024. Additionally, two more sessions are scheduled for 31.08.2024.

### **Mobile Science Exhibition: Health and Sanitation**

The Centre organized a Mobile Science Exhibition (MSE) 'Health and Sanitation' in various schools of Solapur district. Apart from the exhibition. The bus has covered 21 sites in 28 days as of 28.08.2024.

### **Mobile Science Exhibition: Curriculum Based**

The Centre organized a Mobile Science Exhibition (MSE) 'Curriculum Based' in various schools of Wardha district. The bus has covered 18 sites in 28 days as of 28.08.2024.

### **STEM workshop for students**

A STEM workshop is being organized on 29.08.2024 for school students. 55 students are expected to participate in the same. They will be carrying out the hands-on activities in Physics and Chemistry. They will also be given exposure to the different facilities of the Centre.

### **Experimental Skill test on 18.08.2024**

The Centre in collaboration with the Bombay Association for Science Education (BASE), coordinated a session of the Experiment Skill Test at the Centre on 18.08.2024. This program was designed for 05 registered participants. During the test, the students were provided with experimental setups and were expected to conduct experiments under the supervision of experts from the Centre and BASE. The primary objective of this initiative was to evaluate the participants' ability to perform experiments and demonstrate their keen observational skills.

## **RAMAN SCIENCE CENTRE AND PLANETARIUM, NAGPUR**

### **District Level Science Seminar**

The Centre, in collaboration with the State Institute of Science Education, Nagpur, organized a District Level Science Seminar on 01.08.2024. The seminar saw participation from 35 students who were winners at the Taluka level from Nagpur District. They presented on the topic "Artificial Intelligence: Potentials & Concerns" (कृत्रिम बुद्धिमत्ता : संभाव्यता और चिंताएँ). The event was attended by a total of 98 students, teachers, and parents.

### **International Moon Day**

International Moon Day was celebrated at the Centre, on 05.08.2024 (rescheduled due to heavy rains). The event featured a popular science lecture on the theme "Human Life on the Moon?" aimed at high school and junior college students. The lecture was delivered by Dr. M. Y. Apte, a former lecturer at S.F.S. College, Nagpur. Following the lecture, a special Science on Sphere show titled "The Moon" was presented. A total of 55 students participated in the program.

### **Mobile Science Exhibition on 'Science in Syllabus' @ Nagpur District**

The Mobile Science Exhibition Unit titled "Science in Syllabus" was held at 13 schools over 26 days in the rural areas of Nagpur District throughout the month. The exhibition attracted a total of 15,180 visitors. Additionally, 11 science demonstration lectures and 11 film shows were conducted as part of the program, with 3,510 students attending the lectures and 1,880 students participating in the film shows.

### **Mobile Science Exhibition on 'Hygiene & Sanitation' @ Amravati District**

The Mobile Science Exhibition Unit on "Hygiene & Sanitation" was conducted at 13 schools over 26 days in the rural areas of Amravati District during the month. The exhibition was visited by 12,951 people. Additionally, 14 science demonstration lectures and 30 film shows were held, with 6,497 students attending the lectures and 5,546 students participating in the film shows.

### **Monsoon Package Tour**

A total of 15 monsoon package tours were organized from 01.08.2024 to 26.08.2024 for 1,923 students and teachers. The tours included guided visits to the galleries, planetarium shows, film screenings related to their syllabus topics, and science demonstration lectures on themes such as "Colourful Chemistry," "Fun at Low Temperature," and "Fun with Physics," among others.

### **Science Museum School**

The "Science Museum School" project was launched for underprivileged students at the Regional Science Centre, Nagpur, on 22.08.2024. This initiative aims to enhance science education by providing hands-on and minds-on learning experiences through the Centre's various facilities. The program began with 35 students from Maharashtra Adhyayan Mandir, Nagpur, who will visit the Centre every Tuesday to engage with exhibits and facilities aligned with their curriculum. The Centre plans to evaluate the program's impact through special quizzes. The students were welcomed by the Programme Coordinator at RSCN, who introduced them to the program's concept. They attended a Science on Sphere show, where they learned about atmospheric phenomena, and also visited the Fun Science Gallery. The project is supported by the Nischchay Foundation, Nagpur.

### **Test Your Experimental Skills Level 1**

The "Test Your Experimental Skills - Level 1" was conducted on 04.08.2024 and 25.08.2024. This initiative, a collaboration between the Regional Science Centre, Nagpur, and BASE, Mumbai, provides students from grades 8 to 12 with a platform to showcase their experimental skills in science. The assessment was based on two experiments related to any scientific topic assigned to the students. Level 1 focuses on the direct measurement of physical quantities. On 04.08.2024, 19 students participated, and 3 received certificates. On 25.08.2024, 11 students took part in the test.

### **National Space Day Celebration**

The 1<sup>st</sup> National Space Day was celebrated at the Centre & Planetarium, Nagpur, on 23.08.2024. The event featured a range of programs, including a popular science lecture on Space Technology by Shri

Rajesh Muneshwar, Scientific Officer at Vihaan Spacetech, Nagpur. Other activities included a Space Trivia Quiz, a visit to the "India in Space" exhibition, and a special SOS show on India's Moon Mission - Chandrayaan. The program was attended by 148 students, teachers, and parents.

## **REGIONAL SCIENCE CENTRE, BHOPAL**

### **Innovation Hub Programmes**

In August 2024, the Innovation Hub of the Centre organized 17 orientation sessions on various topics, including Phyllotaxy with paper, Disappearing Money, Dark Oxygen, Magic Square Puzzle, Test for Acids and Bases, Black in the Spotlight, Mosquitoes: Friends or Foe, Cell Cycle, Newton's Tower, Plant Phyllotaxy, DC Motor, Plasmolysis, and the Physics Behind Object and Image Formation. A total of 38 students participated in these sessions, exploring a range of scientific concepts and experiments.

### **Celebration Of First National Space Day**

The Centre celebrated the First National Space Day with various activities from 12.08.2024 to 23.08.2024. The events kicked off with a collaboration with ISRO and included an exhibition, interactive sessions, competitions, and panel discussions with over 1,000 participants. The celebration featured a popular lecture by Dr. Mayank Vahia on 23.08.2024, which was attended by 648 individuals and streamed live to remote schools. Additional activities included film shows, quizzes, and rocket-making workshops. The Centre also participated in outreach programs, delivering lectures at multiple institutions to spread awareness about India's space achievements and the vision of Atmanirbhar Bharat in space by 2047.

### **Celebration of Har Ghar Tiranga**

The Centre celebrated the Har Ghar Tiranga campaign by organizing a series of events from 09.08.2024 to 15.08.2024. These events included a Selfie Point booth featuring the tricolor national flag emblem and a signature campaign. All staff members took the Har Ghar Tiranga pledge from the national portal, and a kiosk was set up at the reception for visitors to take the pledge and download their certificates. The Centre's building was illuminated with tricolor lights to enhance the patriotic atmosphere. On 14.08.2024, a special patriotic song competition was held among the staff. Tricolor national flags were distributed to the public to encourage active participation. Additionally, events such as a Tiranga quiz, a Make & Take workshop, and a Super-cooled Bodies show were conducted for the general public. Photos and videos of these activities were shared daily on social media platforms like Facebook, Instagram, and Twitter to reach a wider audience. Outreach programs, including Tiranga quizzes, were also held at various rural schools in Narsinghpur, Dhar, and Khandwa districts during the Mobile Science Exhibition visits.

### **Test Your Experimental Skill (TYES) – Third Batch**

To encourage practical scientific skills, RSC Bhopal, in collaboration with the Bombay Association of Science Education (BASE), conducted the third batch of the TYES program on 25.08.2024. This session included an experimental skills test in Physics, Chemistry, and Biology, with 11 students participating across two sessions. Certificates of Merit will be awarded to all high-achieving participants.

### **Mobile Science Exhibition in Collaboration with Rajya Shiksha Kendra, Bhopal**

In partnership with Rajya Shiksha Kendra, Bhopal, the Centre is currently hosting a Mobile Science Exhibition (MSE) titled "How Things Work" in the Narsinghpur district. This program has reached 12 schools and includes science film screenings and demonstration lectures at each location.

### **Mobile Science Exhibition in Collaboration with the Tribal Affairs Department of MP Government**

The Centre, in partnership with the Tribal Affairs Department of the MP Government, is also running MSE programs using two mobile units themed "Energy" and "Measurement" in the districts of Khandwa and Dhar, respectively. These programs, managed by the outsourcing agency M/s Varnaaz Technologies, have covered a total of 28 schools, with 14 in each district.

## GOA SCIENCE CENTRE AND PLANETARIUM, PANAJI

### Science Demonstration Lecture Series

The Centre held a science demonstration lecture series from 05.08.2024 to 17.08.2024 for high school and higher secondary school students. The series featured demonstrations on topics such as air pressure and vacuum, fun with chemistry, a science magic show, a dry ice show, a liquid nitrogen show, and the fascinating microscopic world. A total of 1,167 students and teachers attended these engaging and educational demonstrations.

### Har Ghar Tiranga Campaign

To commemorate the 78<sup>th</sup> Independence Day, the Centre organized a series of events from 09.08.2024 to 15.08.2024 as part of the Har Ghar Tiranga campaign.

- **Portrait Exhibition on Indian Freedom Fighters**: A portrait exhibition by Shri Vasant Nagarsekhar, showcasing Indian freedom fighters, was held from 10.08.2024 to 15.08.2024. Inaugurated by Shri Satish Nayak, President of the Association of Friends of Astronomy, Goa, the exhibition was visited by approximately 1,509 students, teachers, and members of the public.
- **Tiranga Rally**: A rally with the tricolor was conducted on 09.08.2024 within the Centre premises and on 15.08.2024 from the Centre to Miramar Beach and back, with around 65 participants including students, staff, and the general public.
- **Spot Quiz**: A spot quiz on science and technology since Independence was held from 09.08.2024 to 15.08.2024. Four quizzes were conducted, with 105 visitors participating.
- **Selfie Booth & Distribution of Flags**: A selfie booth with the tricolor and a blank canvas for Har Ghar Tiranga messages were set up, engaging 1,353 visitors.
- **Illumination of Building**: The Centre's building was illuminated with tricolor lights from 09.08.2024 to 15.08.2024, and the premises were decorated to enhance patriotic pride.
- **Flag Hoisting**: The Indian flag was hoisted on 15.08.2024 by Shri Vilas D. Chaudhari, Project Coordinator, Goa Science Centre, with around 67 staff and visitors in attendance.
- **Science Demonstration Lecture**: A dry ice show and a demonstration on the fascinating microscopic world were organized on 15.08.2024, attracting 148 visitors.

### Experimental Skill Test

The Centre conducted the Fifth "Test Your Experimental Skills" exam on 11.08.2024. During this assessment, students performed two experiments to evaluate their skills. A total of 7 students participated, with one student receiving a certificate for outstanding performance.

### Mobile Science Exhibition

In August 2024, the Centre organized a mobile science exhibition in Pernem Taluka, visiting 7 schools. The exhibition included science demonstrations and film shows in addition to the display. A total of 1,984 students, teachers, and members of the general public attended the exhibition.

### National Space Day

The Centre, in collaboration with the Goa State Council of Science & Technology and the Association of Friends of Astronomy, celebrated National Space Day from 22.08.2024 to 23.08.2024. The program included several events:

- **Film Show**: A screening of the Chandrayaan 3 film for higher secondary school students on 22.08.2024, attended by 165 students.

- **Water Booster Rockets Workshop**: Held on 22.08.2024, where 14 students designed and launched water booster rockets.
- **Poster Designing Competition**: On the topic "Development of India's Space Technology," this competition on 22.08.2024 had 56 participants.
- **Space Quiz**: The North Goa District level written elimination round on 22.08.2024 saw 48 students participating.
- **Popular Science Lecture**: Shri Sumukh Kamat delivered a lecture on 3D printing on 22.08.2024, attended by 142 students.
- **Keynote Popular Science Lecture**: On 23.08.2024, Dr. Uday Raj presented on "Cutting Edge Developments in Space Technologies," with 163 attendees.
- **Space Quiz Final Round**: Held on 23.08.2024 for selected students from North and South Goa Districts, with 69 participants.
- **State Level PowerPoint Presentation Competition**: On 23.08.2024, college students presented on "Touching Lives While Touching the Moon: India's Space Saga," with 10 participants and an audience of 146.
- **Valedictory & Prize Distribution**: Concluded on 23.08.2024, with prizes and certificates awarded by Chief Guest Shri Ankit Yadav, IAS, Director of Science Technology and Waste Management, Government of Goa.

## **DISTRICT SCIENCE CENTRE, DHARAMPUR**

### **National Mountain Climbing Day**

National Mountain Climbing Day was observed on 01.08.2024 at the District Science Centre (DSC), Dharampur. A Nature Education Camp was held at the Bilpudi Barumal Reserve Forest area, with 90 participants (69 girls and 21 boys) from Shri Vanraj Arts & Science College. The event featured sessions on the history of the Par River, snake species, human-animal conflict, regional flora and fauna, and trekking skills.

### **Robotic Competition at Nirma University**

On 03.08.2024 and 04.08.2024, Nirma University in Ahmedabad hosted the ECO Robotics Competition. Students from the Innovation Hub, guided by Junior Mentor Rahul Shah, achieved 2nd place with their remarkable skill and innovation, demonstrating a strong presence in the robotics field.

### **International Day of World's Indigenous People**

International Day of World's Indigenous People was celebrated on 09.08.2024 at the District Science Centre, Dharampur, with the theme "Indigenous Youth as Agents of Change for Self-determination." The event included a Science Demonstration Lecture for general visitors.

### **105<sup>th</sup> Birth Anniversary of Dr. Vikram Sarabhai**

On 12.08.2024, the District Science Centre, Dharampur, celebrated the 105<sup>th</sup> Birth Anniversary of Dr. Vikram Sarabhai. A Popular Science Lecture titled "Dr. Vikram Sarabhai: The Architect Behind India's Space Program" was delivered by Dr. R. C. Malan, Assistant Professor at Government Engineering College, Valsad. The lecture highlighted Dr. Sarabhai's significant contributions to India's space program, with 58 students from SMSM High School, Dharampur attending the event.

### **Resin Art Workshop**

The Resin Art Workshop was held at K.B.S. College, Vapi, in two batches from 16.08.2024 to 18.08.2024 and from 22.08.2024 to 25.08.2024. The workshop featured activities such as making keychains, flower



coasters, bookmarks, flower preservation, color mixing, and using silicone molds. A total of 40 students participated, exploring creativity with resin art. Dr. Poonam Chauhan and Ms. Gayatri N. Bisht distributed certificates during the valedictory function.

### **Teacher Training Programme**

On 13.08.2024, DIET, Valsad organized a one-day orientation program for the Bal Vaigyanik Pradarshani and INSPIRE Awards schemes at the District Science Centre, Dharampur. An Open House Quiz on the theme "Independence Day" was also conducted. A total of 55 teachers from primary and higher secondary schools in the Valsad district participated in the event.

### **VVM Brochure Release Programme**

The VVM brochure was released on 13.08.2024 at District Science Centre, Dharampur. The event was attended by Shri Mansukh Nariya, State Coordinator Gujarat, Shri GN Kakadia, VVM District Coordinator Surat, and Shri Pragadesh Rathod, EO, DSCD. A total of 55 teachers from primary and higher secondary schools in the Valsad district participated.

### **78th Independence Day Celebration**

The 78th Independence Day was celebrated at the District Science Centre, Dharampur from 09.08.2024 to 15.08.2024 with vibrant and engaging activities reflecting patriotism and community involvement.

- **Illumination**: The Main Building, Entrance Gate, and "I Love Science" were illuminated in tricolour, enhancing the festive and patriotic atmosphere.
- **Selfies with Tiranga**: A selfie point with a QR code was installed for staff and visitors to take selfies with the Indian flag and upload them on the HGT portal, receiving certificates of participation.
- **Tiranga Rally**: The Centre participated in a Tiranga Rally in Dharampur on 12.08.2024.
- **Video Display**: A continuous video on the 'Evolution of Flags' was screened in the premises.
- **Distribution of Merchandise**: Keychains and ballpens with HGT branding were distributed to visitors at ticket counters.
- **Canvas**: From 13.08.2024 to 15.08.2024, a blank canvas was set up for visitors to express their thoughts and drawings, creating a vibrant display of national pride.
- **Open House Quiz**: An Open House Quiz on "Tiranga" was conducted on 13.08.2024 and 15.08.2024, engaging staff and visitors in testing their knowledge about India's Independence.

### **1<sup>st</sup> National Space Day**

The 1<sup>st</sup> National Space Day was celebrated at the District Science Centre, Dharampur on 22.08.2024 and 23.08.2024. The event featured a seminar on "CHANDRAYAN 3: India's Giant Leap" at Laxmi Institute Sarigam, attended by over 730 students, covering Chandrayaan-3's lunar mission and soft landing at the Moon's South Pole. A Mobile Science Vehicle and a space science quiz were also included. On 23.08.2024, a panel presentation on the Indian Space Program was inaugurated at DSC, featuring a lecture by Dr. Bhadrash Sudani on Chandrayaan-3's impact, supported by 3D models and a quiz on India's space journey, along with a documentary and water rocket demonstration.

### **Exposure Visit of Underprivileged Children**

On 27.08.2024, an exposure visit for 60 underprivileged children was organized at District Science Centre, Dharampur. The visit included a Science Demonstration Lecture, a 3D show, and a Planetarium show. The Innovation Hub hosted an orientation session for students from Shree Vanvasi Utkarsh Trust, Nagariya. The session provided an overview of the Innovation Hub's workshops and activities, aimed at inspiring creativity and enhancing understanding of science and technology. Science kits and refreshments were also provided to the students.

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