



Ministry of Culture  
Government of India



कार्य कलाप प्रतिवेदन

# Activity Report

2023-24



**Birla Industrial & Technological Museum**  
**A Unit of National Council of Science Museums**  
Ministry of Culture, Government of India



# ACTIVITY REPORT

2023 - 2024

Birla Industrial & Technological Museum  
&  
Shrikrishna Science Centre, Patna  
North Bengal Science Centre, Siliguri  
Digha Science Centre & National Science Camp  
District Science Centre, Purulia  
Bardhaman Science Centre

*With best compliments from*

**Shri A. D. Choudhury**

*Director General*

*National Council of Science Museums*

**Shri Subhabrata Chaudhuri**

*Director*

*Birla Industrial & Technological Museum*

## **Birla Industrial & Technological Museum**

(A Unit of National Council of Science Museums, Ministry of Culture, Govt. of India)

19A, Gurusaday Road, Kolkata - 700 019

Phone - 2287 7241, 9477345291

Email: [director@bitm.gov.in](mailto:director@bitm.gov.in), website: [www.bitm.gov.in](http://www.bitm.gov.in)

Facebook : [www.facebook.com/bitmkolkata](https://www.facebook.com/bitmkolkata)

YouTube : [www.youtube.com/birlamuseum](https://www.youtube.com/birlamuseum)

Twitter : @BITMKolkata

## Contents

Page No.

### Message

### Section I

General Information .....	5
---------------------------	---

### Section II: Information about

Existing Galleries, Innovation Hub, Biotech Lab & Digital Planetarium .....	10
Science Park .....	11
Mobile Science Exhibition .....	11
Library Holding .....	12

### Section III: Activities & Events

BITM, Kolkata .....	14
SSC, Patna .....	31
DSC, Purulia .....	36
Bardhaman Science Centre .....	40
NBSC, Siliguri .....	46
Digha Science Centre .....	54

### Section IV : Statistics & Tables

Table 1: Visitor Figure .....	61
Table 2: Science Demonstration Lecture .....	61
Table 3: Mobile Science Exhibition .....	62
Table 4: Science Shows .....	63
Table 5: CAC / Camps / Training .....	64
Table 6: Science Seminar .....	65
Table 7: Science Fair .....	65
Table 8: Exhibit Development Unit wise .....	66
List of Exhibits & Kits developed during the year .....	66

### Section V: Administrative & Finance Data

Staff Strength .....	72
Retirement / Resignation / Death .....	72
Appointment .....	72
Transfer .....	73
Promotions .....	73
MACP .....	74
Expenditure .....	74

### Section VI: Committee Members of BITM & Satellite Units

Executive Committee of BITM .....	76
Planning & Programming Committee of BITM .....	77
Local Advisory Committee of SSC, Patna .....	78
Local Advisory Committee of NBSC, Siliguri .....	78
Local Advisory Committee of Bardhaman Science Centre .....	79
Local Advisory Committee of DSC, Purulia .....	79
Local Advisory Committee of Digha Science Centre .....	80

## Message

The Annual Activity Report of BITM is truly a manifesto of the busy schedules of year-long activities, which not only reflects the volume of quality works but also showcases the involvement and true patronage of the Team BITM towards its esteemed stakeholders- our valued visitors. The year 2023-24 was proved to be a very significant year from the visitors' perspective since many new facilities were introduced. The Vintage Voyage gallery of BITM featuring over 75 vintage artefacts, unfurled the true story of connectivity. An upgraded Mock-Up Coal Mine was thrown open to the visitors once again with additional features contemporaneous with the changing scenario of mining technology of today for the thrill and entertainment of the visitors. Temporary exhibits like "Cracking the Science Nobel 2023" at BITM, "Millets: The Superfood" at BITM, Kolkata, NBSC, Siliguri, SSC Patna & DSC Digha and "Aditya L1" at SSC Patna were displayed. Many new interactive Science Demonstration Lectures like "Rotational Dynamics" & "Frigid Physics" at BITM, Kolkata; "Magnificent Moon" & "Liquid Pressure" at DSC, Bardhaman; "Liquid Pressure" & "Introduction to EMI" at SSC Patna, "Liquid Pressure" at DSC, Digha; "Properties of Light" & "Liquid Pressure" at DSC Purulia were successfully launched and well appreciated by the school students and general visitors. A panel exhibition on Raptors named "Wings of Wonder" was launched at BITM in collaboration with WWF India.

Huge number of students from different schools of Kolkata took part in the carnival of Science called "Physics Festival", organized at BITM, Kolkata. Apart from our regular Summer Camp for the school students, BITM and its satellite units NBSC, Siliguri; DSC, Digha; DSC, Purulia & DSC, Bardhaman also organized a series of Students Science Camp on various topics viz. Chemistry, Physics, Life Science, Mathematics, Electronics and Geography & Basic Astronomy, in collaboration with Paschim Banbga Samagra Sikha Mission (PBSSM), Govt. of West Bengal. We had been effectively connected with more than 1.3 million peripheral visitors through our outreach programme called Mobile Science Exhibition. Apart from this, a special outreach programme called Residential Sky Observation Programme at KGBV Hostel, for Girl students, was arranged throughout West Bengal by BITM and its satellite units NBSC, Siliguri; DSC, Digha; DSC, Purulia & DSC, Bardhaman, In collaboration with PBSSM. New hands on activities like "Toys from Trash", "Chem Craft" and "Science from Shelves" were introduced for the first time and were well accepted and appreciated by the students, teachers and parents. As a reward for this outstanding achievement, we received a huge visitor footfall, for which the concerted effort from each and every member of the Team BITM must be lauded and we do expect maintaining this buoyant mood in a 'keep going' spirit in the days to come as well.

With best wishes and deepest regards,



**Shri Subhabrata Chaudhuri**  
*Director, BITM*

# **SECTION I**

## **General Information**



## General Information

### Birla Industrial & Technological Museum

---

- i. Name of Head of Museum : **Shri Subhabrata Chaudhuri, Director**  
ii. Full Address : 19A, Gurusaday Road, Kolkata - 700019  
iii. Phone No and : 033 2287 7241, 9477345290/1/2,  
iv. Fax : 22870233  
v. Email : director@bitm.gov.in  
vi. Website: www.bitm.gov.in  
vii. Hours of opening : 9:30 am to 6:00 pm on all days (including Saturdays and Sundays)  
viii. Closed to visitors on : Doljatra and Kalipuja  
ix. Inaugurated on : 2nd May 1959  
x. Floor Area in Sq. mtrs.: 10351.95

xi. Ticket Rates:

**a) Museum Entry**

- i. General Visitors - Rs.60.00 per head  
ii. 25 or more Visitors in a group - Rs.45.00 per head  
iii. Non-Govt. School Students in Group - Rs.20.00 per head  
iv. Govt. School Students in Group - Rs.10.00 per head

**b) Taramandal Show**

- i. General Visitors & Students - Rs. 10.00 per head,  
ii. Govt. School Students in Group - Rs. 10.00 per head

**c) Coal Mine Show**

- i. General Visitor - Rs. 15.00 per head,  
ii. 25 or more Visitors in a group : - Rs. 10.00 per head  
iii. School Group - Rs. 5.00 per head

**d) 3D show**

- i. General Visitors- Rs. 35.00 per head  
ii. 25 or more Visitors in a group - Rs. 30.00 per head  
iii. Non-Govt. School Students in Group - Rs. 20.00 per head,  
iv. Govt. School Students in Group - Rs. 15.00 per head

**e) Science Show**

- i. General Visitors & Non-Govt. School Students in Group -  
Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head

**f) Package Rate Tickets**

(includes one science show + 3D show + coal mine show + visit to all galleries + Chromakey shows in TV + Show in Spark Theatre + Math demo in Mathematics Gallery)

- i. General Visitors- Rs. 80.00 per head  
ii. 25 or more Visitors in a group : - Rs. 70.00 per head  
iii. Non-Govt. School Students in Group - Rs. 45.00 per head  
iv. Govt. School Students in Group - Rs. 30.00 per head  
v. Underprivileged Students in Group - Rs. 20.00 per head

## Shrikrishna Science Centre, Patna

---

- i. Name of Head of Centre : Shri Amitabh, Project Coordinator  
ii. Full Address : West Gandhi Maidan, Patna - 800001  
iii. STD Code with Phone No : 0612 2206992      iv. Email : sscncsm@gmail.com  
v. Website : <http://www.sksciencecentre.org>  
vi. Hours of opening : 9:30 am to 6.30 pm      vii. Closed to visitors on: Holi & Diwali  
viii. Inaugurated on : 14th April 1978      ix. Floor Area in Sq. mtrs: 5000.69  
x. Ticket Rates:

### **a) Centre Entry**

- i. General Visitors - Rs. 40.00 per head
- ii. 20 or more Visitors in a group - Rs. 10.00 per head
- iii. Non Govt. Schools Students in Group - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 5.00 per head

### **b) Taramandal Show**

- i. General Visitors & Non Govt. Schools Students in Group - Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

### **c) 3D Show**

- i. General Visitor - Rs. 35.00 per head
- ii. 25 or more Visitors in a group - Rs. 15.00 per head
- iii. Non Govt. Schools Students in Group - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 5.00 per head

### **d) Digital Planetarium Show**

- i. General visitor - 30.00 per head
- ii. Non Govt. Schools Students in Group - 15.00 per head
- iii. Govt. Student in group - 5.00 per head

### **e) Science on a Sphere Show**

- i. General visitor - 30.00 per head
- ii. Non Govt. Schools Students in Group - 15.00 per head
- iii. Govt. Student in group - 10.00 per head

## District Science Centre, Purulia

---

- i. Name of Head of Centre : Shri Dhrubajyoti Chattopadhyaya, District Project Officer  
ii. Full Address : North Lake Road, Purulia - 723101      iii. Phone No : 9593383386  
iv. Email : dscpurulia@gmail.com, districtsciencecentrepurulia@gmail.com  
v. Hours of opening : 10:00 am to 6:30 pm      vi. Closed to visitors on: Doljatra and Kalipuja  
vii. Inaugurated on : 15th December 1982      viii. Floor Area in Sq. mtrs: 1637

ix. Ticket Rates :

### **a) Centre Entry**

- i. General Visitors - Rs. 20.00 per head
- ii. Non Govt. Schools Students in Group - Rs. 10.00 per head
- iii. Govt. School Students in Group - Rs. 5.00 per head

### **b) Taramandal Show**

- I) General Visitors & Non Govt. Students in Group - Rs. 10.00 per head
- II) Students in groups - Re. 5.00 per head

### **c) Science Show**

- I) General Visitors & Non Govt. Students in Group - Rs. 10.00 per head
- II) Students in groups - Re. 5.00 per head

### **d) 3D Show**

- i) General Visitors - Rs. 15.00 per head
- ii) Students in groups - Re. 10.00 per head

### **e) Royal Museum Tour Package for General (Entry & all shows) - Rs. 40.00**

### **f) Gold Museum Tour Package for General (Entry & 3D show) - Rs. 30.00**

## Bardhaman Science Centre

---

- i. Name of Head of Centre: Shri Nikhilesh Biswas, District Science Officer  
ii. Full Address: Ramna Maidan, Baburbag P.O. Rajbati Dist. Purba Bardhaman - 713104  
iii. STD Code with Phone No : 0342 2950565      iv. Email: sciencecentrebwn@gmail.com  
v. Hours of opening: 10 am to 6:00 pm      vi. Closed to visitors on: Doljatra and Kalipuja  
vii. Inaugurated on: 9th January 1994      viii. Floor Area in Sq. mtrs: 2117

ix. Ticket Rates:

**a) Centre Entry**

- i. General Visitors - Rs. 25.00 per head
- ii. 25 or more in a Group : Rs. 15.00 per head
- iii. Non Govt. Schools Students in Group : Rs. 10 per head
- iv. Govt. Schools students in Group : Rs. 5.00 per head

**b) Taramandal Show**

- i. General Visitors— Rs. 10.00 per head
- ii. Students in Group : Rs. 5.00 per head

**c) Science Show**

- i. General Visitors— Rs. 10.00 per head
- ii. Students in Group : Rs. 5.00 per head

**d) 3D Show**

- i. General Visitors - Rs. 30.00 per head
- ii. 25 or more in a group - Rs. 25.00 per head
- iii. Students in Group : Rs. 10.00 per head

## North Bengal Science Centre, Siliguri

---

- i. Name of Head of Centre : Shri Ritabrata Biswas, Project Coordinator  
ii. Full Address : Post Matigara Siliguri - 734010 Dist. Darjeeling  
iii. STD Code with Phone No : 0353 2571229      iv. Email, nbscsiliguri1997@gmail.com  
v. Website www.nbscsiliguri.org      vii. Twitter: twitter.com/nbscsiliguri1  
viii. Youtube: www.youtube.com/channel/UCjwgmxxRCFAFBVrwHVUEF1Q  
ix. Hours of opening : 10:30 am to 7 pm      x. Closed to visitors on : Holi & Diwali  
xi. Inaugurated on : 17th Aug 1997      xii. Floor Area in Sq. mtrs: 2598

xi. Ticket Rates :

**a) Centre Entry**

- i. General Visitors - Rs. 30.00 per head
- ii. 25 or more Visitors in a group - Rs. 20.00 per head
- iii. Non Govt. Schools Students in Group - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 5.00 per head

**b) Digital Planetarium**

- i. General Visitors - Rs. 30.00 per head
- ii. 25 or more in a group - Rs. 25.00 per head
- iii. Non Govt. School Students in Group - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

**c) Taramandal Show**

- i. General Visitors & Students in a group : Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

**d) Science Show**

- i. General Visitors & Students in a group - Rs 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

**e) 3D Show**

- i. General Visitor - Rs 25.00 per head
- ii. 25 or more Visitors in a group - Rs. 20.00 per head
- iii. Non Govt. School Students in Group - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

## Digha Science Centre & National Science Camp

---

- i. Name of Head of Centre : Shri Niranjana Gupta, Project Coordinator  
ii. Full Address : Fore Shore Road, New Digha - 721 463 West Bengal  
iii. STD Code with Phone No : 03220296360      iv. Email : dscdigha@gmail.com  
v. Hours of opening: 9 am to 7 pm      vi. Closed to visitors on: Doljatra & Kalipuja  
vii. Inaugurated on : 31st Aug 1997      viii. Floor Area in Sq. mtrs : 2589.25

ix. Ticket Rates :

**a) Centre Entry**

- i. General Visitors - Rs.30.00 per head
- ii. 25 or more Visitors in a group - Rs.25.00 per head
- iii. Non-Govt. School Students in Group - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

**b) Taramandal Show**

- i. General Visitors & Non-Govt. School Students in Group - Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs.5.00 per head

**c) Science Show**

- i. General Visitors & Non-Govt. School Students in Group - Rs 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

**d) 3D Show**

- i. General Visitors- Rs 25.00 per head
- ii. 25 or more Visitors in a group - Rs. 20.00 per head
- iii. Non-Govt. School Students in Group - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

**e) Sky Observation Programme**

Rs. 5.00 per head.

**f) Space & Astronomy Centre**

- i. General Visitors - Rs.30.00 per head
- ii. 25 or more Visitors in a group - Rs. 25.00 per head
- iii. Non-Govt. School Students in Group - Rs.15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

## **SECTION II**

**Existing Galleries, Innovation Hub, Biotech Lab & Digital Planetarium**

**Science Park**

**Mobile Science Exhibition**

**Library Holding**



## Existing Galleries Innovation Hub, Biotech Lab & Digital Planetarium

Museum/ Centre	Galleries/ Innovation / Hub Biotech Lab	Floor Area (Sq. Mtr)	Year of Inauguration	No. of Exhibits
Birla Industrial & Technological Museum	● Transport	350	1973 & 2008	94
	● Mock-up Coal Mine	540	1983, 2008, 2023	65
	● Motive Power Hall – I	181	1962, 2003, 2022	46
	● Motive Power Hall – II	189	2006	47
	● Metals	200	2005	50
	● Fascinating Physics	265	2006	65
	● Television	200	2007	28
	● Popular Science	475	1964 & 2009	45
	● Mathematics	260	2010	44
	● Children's Gallery	475	1988 & 2012	42
Birla Industrial & Technological Museum	● Electricity	170	1984 & 2015	53
	● World in Darkness	95	2009	19
	● Digital Adventure	230	2019	17
	● Biotechnology	189	2003	52
	● Vintage Voyage	140	2023	75
	Innovation Hub	196	23 August 2013	—
	Biotech Lab	210	2 May 2017	—
	Astronomy Club	—	26 June 2022	—
Shrikrishna Science Centre, Patna	● Fun Science	400	2008 & 2016	49
	● Mirror Image & 3D	462	2010 & 2013	50
	● Evolution	400	1996	-
	● Ocean Gallery, Hall of Activity & Mirror Section	260	1978 & 2022	22
	● S. K. Singh Gallery	50	1978	20
	● Children's Gallery	100	2018	11
	Digital Planetarium	50	—	—
	Innovation Hub	167	7 October 2016	—
District Science Centre, Purulia	● Wealth of Purulia	186	2005	31
	● Popular Science	186	2010	40
	● Children's Gallery	95	2011	21
	● Life Science	186	2016	35
	Innovation Hub	120	17 December 2019	—
Bardhaman Science Centre	● Human Performance	450	2002	29
	● Life Science & Fun Science	450	2011	14 17
	Innovation Hub	233	10 July 2015	—
Digha Science Centre & National Science Camp	● Life Science	247	2006 & 2022	28
	● Reflection	247	2010	30
	● Fun Science	247	2014	33
	Digital Planetarium	50	09 February 2017	—
	Innovation Hub	265	16 February 2019	—

Museum/ Centre	Galleries / Innovation / Hub Biotech Lab	Floor Area (Sq. Mtr)	Year of Inauguration	No. of Exhibits
North Bengal Science Centre, Siliguri	● Popular Science	380	2022	23
	● The Father of the Nation: A Digital Tribute	380	2020	10
	● Life Science & Children's Corner	120	1997	10
	● Nature Interpretation	400	2001	17
	● Light, Mirrors & Images	380	2017	33
	Digital Planetarium	50	2010	—
	Innovation Hub	240.25	16 February 2018	—



## Science Park

Museum/Centre	Area	No. of Exhibits	Year of Inauguration
SSC, Patna	1 acre	35	1979
DSC, Purulia	1 acre	41	1977
Bardhaman Sc. Centre	3 acre	50	1992
NBSC, Siliguri	4.6 acre	32	1997
Digha Sc. Centre	1. 7 acre	35	1997



## Mobile Science Exhibition

Museum/Centre	Title of the Unit	Unit developed by	Year in which developed	No. of Exhibits
Birla Industrial & Technological Museum	Heat & Temperature Mathematics Machines in Everyday Life	RSC, Bhubneswar	2010	20
		NBSC, Siliguri	2007	20
		BITM, Kolkata	2019	20
Shrikrishna Science Centre, Patna	Popular Science Food & Health Machines in Everyday Life	BITM, Kolkata	2018	20
		CRTL, Kolkata	2019	20
		SSC, Patna	2019	20
District Science Centre, Purulia	Measurement Food & Health	CRTL, Kolkata	2019	20
		CRTL, Kolkata	2019	20
Bardhaman Science Centre	Measurement	CRTL, Kolkata	2019	20
North Bengal Science Centre	Hands on Science Machines in Everyday Life	BITM, Kolkata	2014	24
		BITM, Kolkata	2019	20
Digha Science Centre	Chemistry & Life with Focus on Water	Science City	2019	20

## Library Holding

Museum / Centre	Items	Total holding as on 01.04.2023	Acquired during the year	Written off during the year	Total holding as on 31.03.2024
Birla Industrial & Technological Museum	Books Brochure Journals Films/Cassettes CDs	16581 3032 8862 919 725	69 04 15 - -	- - - - -	1669 3040 8877 919 725
Shrikrishna Science Centre, Patna	Books Journals	2374 1481	06 -	- -	2381 1487
District Science Centre, Purulia	Books Films Cassettes Cds	1154 43 17 58	- - - -	- - - -	1154 43 17 58
Bardhaman Science Centre	Books Journals CDs Films Video Cassette	249 315 27 21 02	- - - - -	- - - - -	249 315 27 21 02
North Bengal Science Centre	Books Films CDs	402 05 15	23 - -	- - -	425 05 15
Digha Science Centre	Books Cds	398 27	- -	- -	398 27

## **SECTION III**

### **Activities at a Glance Unit Wise**

**New Facilities**

**Special Events**

**Innovation Hub Activities**

**Biotech Lab Activities**

**Collaborative Programmes**

**Participation in Government Programmes & Initiative**

**List of Popular Lectures**

**Camps, Trainings and Workshops held**

**Observance of Important Days**

## Birla Industrial & Technological Museum

---

### **New Facilities:**

#### **Inauguration of New Gallery 'Vintage Voyage: Communication Technology' - May 18, 2023:**

New Gallery 'Vintage Voyage-Communication Technology', featuring over 75 vintage artefacts fostering connectivity, along with stories revealing the societal impact of such technologies was inaugurated at BITM, Kolkata on International Museum Day 2023. The Gallery was inaugurated by Prof. Abhijit Chakrabarti, Member, Governing Body, National Council of Science Museums; Chairman, Executive Committee, Birla Industrial & Technological Museum; Former Vice-Chancellor, Jadavpur University. Murals, mannequins, multimedia and modern art installations complement the teleprinters, ionosphere recorder, gramophone, manual telephone exchange, wall-mounted telephones, replica of Bell's liquid transmitter and fire-alarm box which occupy prime positions. Focusing on two-way communication– the Gallery hosts an array of working artefacts (morse key, fire alarm with cranking system, semaphore, rail signal apparatus) and technologies, developed and designed in response to one of the fundamental drivers of our humanity - the innate need to connect. Technologies the Gallery explores include communication methods past and present, post, telegraphy, telephony, radio and the innovations and technologies of various Indian path-breakers.

#### **Launch of Panel Exhibition on 'Millets - The Superfood?' - September 08, 2023:**

Commemorating the International Year of Millets - an opportunity to raise awareness of, and direct policy attention to the nutritional and health benefits of millets and their suitability for cultivation under adverse and changing climatic conditions, an exhibition on 'Millets -The Superfood?' was inaugurated by Prof. Dr. P. Jaisankar, Chief Scientist & Head, Professor of Chemical Sciences, AcSIR; Department of Organic & Medicinal Chemistry, Laboratory of Catalysis & Chemical Biology, CSIR-Indian Institute of Chemical Biology and President, Royal Society of Chemistry at BITM on September 08, 2023.

#### **Inauguration of Mock-Up Coal Mine (upgraded) - October 18, 2023 :**

An upgraded Mock-up Coal Mine facility was Inaugurated on October 18, 2023 by Director BITM, Shri Subhabrata Chaudhuri; Chief Guest Shri Sutirtha Bhattacharya, IAS (Retd.), Former Chairman & Managing Director, Coal India Limited; Guests of Honour Shri Gautam Dhar, Former Executive Director, Coal India Ltd.; Shri T. K. Nag, Former CMD, Northern Coalfields Limited and Shri Vijay Sagar, Media Advisor to Chairman, Coal India. About 120 students from Kendriya Vidyalaya, Ballygunge and Behala Sarada Vidyapith for Girls were taken on a maiden tour of the facility during the inaugural session.

#### **Launch of Exhibition, 3D Film and Popular Lecture - January 15, 2024:**

A new exhibition, named 'Cracking the Science Nobels 2023' played with analogies, comparisons and contrast whilst celebrating the awarded research, all of which are a constant reminder that there's still plenty of room at the bottom.

'Fly Me to the Moon' was one of the first animated features created expressly for 3-D. This follows three young flies that set off on a courageous mission to become the first insects on the moon by hitching a ride on the historic Apollo-11 space flight. What happens thereafter is the crux of this new 17-minutes adventure story.

Stressing on the importance of Diet and Physical Activity, Prof. Asim K. Duttaroy, Group Leader, Clinical Nutrition, Faculty of Medicine, University of Oslo, Norway and Member, Nobel Prize Selection

Committee for Physiology or Medicine delivered a Popular Lecture titled 'সুস্থ দেহ ও প্রশান্ত মন : খাদ্য এবং শারীরিক কার্যকলাপের গুরুত্ব' - attended by around 350 students and teachers. January 15, 2024

### **Special Events:**

#### **Screening of 'A Life Dedicated to Science' - April 29, 2023:**

BITM, Kolkata in association with Learning System's Cinema for a Cause Initiative, arranged for the screening of an interview-based documentary on Former Director, BITM titled 'A Life Dedicated to Science'. This was followed with memoir and experience sharing sessions by veterans, at the BITM Auditorium.

**'গানে বিজ্ঞানে রবীন্দ্রনাথ - Rabindranath: A Combination of Science & Philosophical Thought' collaborative event with Amuzing Centre for Performing Arts - June 22, 2023:**

A Special programme on Rabindranath Tagore was organized by BITM, Kolkata, featuring Popular Lecture 'বিজ্ঞান ভাবনায় রবীন্দ্রনাথ' by Dr. Syamal Chakrabarti, Former Professor, Department of Chemistry, University of Calcutta - followed by Lyrical Drama 'গীতিআলেখ্য', conceptualized & directed by Shri Rajnarayan Bhattacharya, Amuzing Centre for Performing Arts, 'বিজ্ঞান ভাবনায় রবীন্দ্রনাথ'. Rabindranath: A Combination of Science & Philosophical Thought' was live streamed and was attended in-person by 250 students and teachers from the Mitra Institution and Adarsha Balika Shikshayatan at BITM, Kolkata.

**Educational Tour of the Future Foundation School - June 27 and June 30, 2023:**

Science Demonstration Lectures in Physics, Chemistry, Mathematics, Earth Sciences; Science Show and Gallery Visit for over 200 students of classes 7 and 8 from The Future Foundation School.

**Educational Tour of the Future Foundation School - July 04 to 07, 2023:**

Science Demonstration Lectures in Physics, Chemistry, Mathematics, Earth Sciences; Science Show and Gallery Visit for over 350 students of classes 5 and 6 from The Future Foundation School, covering:

Matter, Simple Machines, Force

Magnetism, Latitude, longitude, Layers of Earth, Light-Shadow/Eclipse

**Online Workshop 'Play & Learn with Robots' - July 15 to 16, 2023:**

Online Robotics Workshop for registered 81 students of classes 6 to 10, conducted by Innovation Hub, BITM.

**Science Workshop for Birla High School - July 18, 2023**

Interactive Science Demonstration Lecture for 140 students of class 8 from Birla High School, covering:

- Physics - Force and Pressure, Sound, Light, Electricity and Friction
- Chemistry - Addition Reaction, Double Decomposition Reaction, Endothermic Reaction, Redox Reaction, Catalytic reaction, Acid, Bases, Salts
- Biology – Gram Staining, Observation of Cells under Microscope
- Mathematics-Visualizing Graphs, Application of Pythagoras Theorem, Power of Indices, Equations in Everyday Life

**Curriculum-oriented & experiment-based Science Demonstration Series 'Festival of Physics' July 31-August 04, 2023:**

As a part of week-long celebration 'Festival of Physics', BITM, Kolkata organized a series of experiment-based Science Demonstrations, during July 31 – August 04, 2023, at the BITM premises. Lectures were delivered in the morning session (10:00 am – 11:00 am) by science communicators from BITM, followed by the afternoon session (11:30 am – 01:00 pm) by invited Experts - Dr. B. N. Das, Former Professor, Presidency College, Kolkata and Mrs. Moumita Dasgupta, School Coordinator, Poddar International School, Howrah. These sessions were meant to provide fascinating insights into Physics, covering core topics and contextualizing the Physics curriculum – as specified in the ICSE/CBSE/WBBSE Class 7-12 syllabus.

**Science Demonstration Lecture 'Electromagnetic Induction' - August 10 and 14, 2023:**

Interactive and educative SDL programme was arranged on Electromagnetic Induction for students of classes X-XII from Sakhawat Memorial School and Modern High School.

**24th Niroprova Memorial Lecture, in collaboration with Royal Society of Chemistry (Eastern India Section) – November 30, 2023:**

Delving on the systematic and scientific search for Earth-like planets, whilst celebrating the rare astronomical and geological coincidences that enabled life to evolve on Earth, BITM, Kolkata, in collaboration with Royal Society of Chemistry (Eastern India Section) presented the 24th Niroprova Memorial Lecture, titled 'The Elusive Aliens'.

Prof. Sujan Sengupta, Senior Professor, Indian Institute of Astrophysics, Bengaluru and Visiting Professor of Physics, Ashoka University, Sonapat, Haryana, led the discussion. Prof. Sengupta was one of the signatories, along with the late Prof. Stephen Hawking, Prof. Frank Drake, Prof. Kip Thorne, et al., of the Breakthrough Initiatives project - a suite of space science programs investigating the fundamental questions of life in the Universe.

The session was attended by over 350 students and teachers from PM Shri Kendriya Vidyalaya No.1, Ishapore; Loreto Day School, Elliot Road; Apeejay School, Park Street; South Point Institute; Serampore Girls High School; Taltala High School; St. James School, Kolkata; St. Xavier's Institution, Ruiya; St. Augustine's Day School, Kolkata; Kamala Chatterjee School for Girls; Garbalia R. C. Manna Institution (H. S.); Bandipur Ideal Academy for Girls; Ranaghat Bharati High School; Lions Calcutta Greater Vidya Mandir and Uzirpukuria High School.

### **Open-Air Science Show on 'Air' - December 25-31, 2023:**

New open-air Science Show was introduced for visitors during the festive week, featuring spectacular demonstrations on the properties of Air – using dry ice, liquid nitrogen and laser beams.

### **Shiksha Swastha Bijnan organized National Seminar on Science Environment & Medicinal Plants & Book Release - December 28, 2023:**

In collaboration with Garia Institute of Education Research & Training, BITM hosted the Shiksha Swastha Bijnan organised National Seminar on Science Environment & Medicinal Plants & Book Release. Inaugurated by Shri Shashi Nandkeolyar, IFS (Retd.) Advisor (Forest), Former Principal Chief Conservator of Forest & HoFF, Jharkhand in the presence of Chief Guest Prof. (Dr.) Debasish Banerjee, Vice Chancellor, Kazi Nazrul University and Guest of Honour, Dr. Chandra Shekhar Singh, Secretary (Tech.) of Director (Tech) & GM, CII – the Seminar featured talks by Prof. (Dr.) Rajib Bandyopadhyay, Prof. (Dr.) Asis Majumder, Shri Shyamal Kumar Jana, Shri Ujjal Kumar Ray, Prof. (Dr.) Dipak Kumar Ghosh and Prof. (Dr.) Chittabrata Palit.

### **On-location filming of episodes for Quest 3.0 - January 20-25, 2024:**

BITM, Kolkata conducted a 13 episodes experimental quiz programme named 'Quest 3.0' in collaboration with DD Kolkata with 26 winning schools of Kolkata, Howrah, North 24 Parganas, South 24 Parganas, Siliguri, Purulia, Bardhaman and East Medinipur.

### **Annual Science Quiz:**

#### **Annual Science Quiz 2023-24 - October 09 -11, 2023:**

A 3-day long Annual Science Quiz was organized by BITM, Kolkata, from October 09 to 11, 2023. All total 87 participants of classes IX-XII from 29 schools in Kolkata participated in this quiz competition. Top 20 teams were nominated for 'Quest 3.0', an experiment-based Science Quiz contest, jointly conducted by BITM, Kolkata and Doordarshan Kendra, Kolkata.

### **Innovation Hub Activity:**

#### **Online Workshop 'Play & Learn with Robots' - July 15 to 16, 2023 :**

Online Robotics Workshop for registered 81 students of classes 6 to 10, conducted by Innovation Hub, BITM. Topics of Discussion are as follows: Introduction to Basic Robotics, Online play and learn of rover movement, Discussion of various Robotics practical platforms, Demonstration of Humanoid and various LEGO Robots.

#### **Hands-on Workshop 'ChemCraft' - August 26 to 27, 2023 :**

A two-day long Hands-on Workshop for 64 students on 'ChemCraft' was organized by the Innovation Hub of BITM, where a fusion of Chemistry and Art had been created and preserved as artwork; featuring different chemistry experiments.

#### **Robotics Workshop 'Design your First Rover' – December 23-24, 2023:**

Innovation Hub, BITM, Kolkata conducted two batches of a two-day Robotics Workshop 'Design your First Rover', featuring Know Your Rover Parts, Software Coding, Rover Building and Wireless Control - for 67 registered students of Class VI to X.

- Various types of science projects are developed by the Innovation Hub Members. The List is as follows: Detecto.AI, Autonomous Railway Gate System, Powered by AI, IoT based smart Plant Monitoring Device, Auto-Guard (Keypad door Lock System).  
Achievements:
- One of our Innovation Hub, BITM Student, Mayank Pradhan selected for final round of Young Innovators Innovation Challenge which was held in IME 2024 on 18th & 19th May 2024 at Science City, Kolkata.
- Three Students of Innovation Hub, BITM selected in the Eastern India Innovation Festival 2024 on 15th & 16th March 2024 which was held in Digha Science Centre & National Science Camp

## **Astronomy Club:**

### **Hybrid Workshop 'A Journey to the Sun' - April 01-02, 2023:**

The BITM Astronomy Club recently conducted a workshop in hybrid mode, for 135 participating students ranging from classes VI to postgraduate level. The workshop aimed to provide participants with a comprehensive understanding of Solar Astrophysics, including its impact on space weather, and hands-on experience in analyzing NASA solar satellite data using Python.

### **Outreach event 'Astronights' at Victoria Memorial Hall, Kolkata - April 01-02, 2023:**

Astronights, an outreach initiative held at Victoria Memorial Hall, Kolkata, in collaboration with Science City, Sky Watchers' Association, and CESSI, IISER Kolkata, aimed to engage the public in astronomy and space science through a series of educational and entertaining activities. The event featured various educational activities as follows:

Dr. Debiprosad Duari, Former Director of M. P. Birla Planetarium, delivered a captivating talk on April 01, 2023, addressing a wide audience with accessible insights into astronomy.

On April 02, 2023, Dr. Dibyendu Nandi, Head of the Center of Excellence in Space Sciences at IISER Kolkata, provided valuable perspectives on space sciences, engaging attendees with his expertise.

The event featured a spectacular open-air science show, presenting physics activities suitable for participants of all ages.

Sky-watching sessions facilitated direct engagement with the night sky, fostering appreciation for astronomy and celestial phenomena.

### **Screening of Chandrayaan-3 Launch - July 14, 2023:**

The screening of the launch of Chandrayaan-3, held on July 14, 2023, at BITM, Kolkata, provided an opportunity for over 250 students, teachers, and members of the general audience to witness the live telecast of the LVM3-M4/Chandrayaan-3 mission from Satish Dhawan Space Centre, Sriharikota. The event also featured video presentations, hands-on experiments, and a slide-show focusing on the Moon and ISRO's Moon missions. Students and teachers from Mahadevi Birla Shishu Vihar and Ashok Hall Group of Schools, along with members of the general audience, benefited from the educational and inspiring event.

### **Screening of soft-landing of Chandrayaan-3 - August 23, 2023:**

On August 23, 2023, the soft landing of Chandrayaan-3 was screened live on giant outdoor screens and indoors at BITM, Kolkata. The event also included videos, hands-on experiments, and a slide show on the Moon and ISRO Moon Missions. It was attended by over 1600 students and a general audience at BITM, Kolkata.

April 2022 respectively.

### **Screening of Launch of ISRO's Aditya-L1 Mission - September 02, 2023:**

To mark the occasion of the launch of ISRO's Aditya-L1 Mission, the first space-based observatory-class Indian solar mission, BITM invited students and general audiences to witness the live streaming of the launch at the museum on September 2, 2023. This event included the unveiling of a model Aditya-L1 spacecraft, video captures, hands-on experiments, and a slide show on the Sun and ISRO missions. The event was attended by over 100 students and general audiences at BITM, Kolkata.

### **Popular Lecture 'Aditya-L1 Mission - A Journey towards the Sun' - September 06, 2023:**

The Astronomy Club of BITM, Kolkata, organized a popular talk titled 'Aditya-L1 Mission – A Journey towards the Sun' on September 6, 2023. The talk was delivered by solar physicist Prof. Dipankar

Banerjee, Director of the Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, and Lead Advisor for the Aditya-L1 Mission. Revealing secrets about the past, present, and future of the Sun, the talk focused on Aditya-L1 as a unique observatory to be positioned at the First Lagrangian point, approximately 1.5 million kilometers from Earth. This spacecraft will transmit data, much of which will be accessed by the scientific community for the first time from a space platform. The session was attended by over 400 invited students and teachers

### **Seminar on ISRO Space Missions - November 08, 2023:**

A Seminar was arranged by Astronomy Club, BITM on recent ISRO Space Missions on November 08, 2023.

### **Live demonstration of Achieving of L1 - January 06, 2024:**

To mark the occasion of ISRO's Aditya-L1 Mission— reaching its final destination, BITM, Kolkata arranged the live-demonstration of this event at the Museum. The session was supplemented with exhibition on orbit of Aditya-L1, demonstration on the Sun and its layers and slide-show on Solar Physics - conducted for students and interested audiences, from 03:00 pm at the premises.

### **Popular Talk by Astronomy Club, BITM - February 22, 2024:**

A Popular Lecture on 'Uncovering Space Weather: From Sun to the Earth' was delivered by Dr. Sanchita Pal, NASA Post Doctoral Fellow was hosted at BITM premises.

## **Bio-Technology:**

### **Biotechnology Laboratory activities:**

BITM's Biotechnology Laboratory conducts a variety of Hands-on Biology, Biotechnology Activities/ Experiments besides inquiry-based laboratory investigations in the field. Some of the investigatory projects are

Comparative study of quantification of proteins among sprouted and unsprouted seeds of Vigna radiata and Cicer arietinum, Evaluation of anti-fungal properties of medicinal plant leaves, Making of our own efficient hand sanitizer, Assessment of bacterial contaminants in household water tanks of South Kolkata, Comparative study of Vitamin C, Bacterial load analysis of various milk samples available in local market by Methylene Blue Reduction Test, Qualitative and quantitative assay of Coliform bacteria in different water samples.

### **Workshop 'Basic Techniques in Biotechnology' - April 07-08, 2023:**

BITM Biotechnology Lab training programme, designed to give a hands-on experience in the areas of microbiology and molecular biology techniques— including a practical demonstration of microbiology techniques Serial dilution, Bacteria isolation, and enumeration from the given sample, Gram staining of the isolated bacteria and useful molecular biology techniques Polymerase Chain Reaction, Agarose gel electrophoresis, Visualizing and analysis of agarose gel— along with the operation of different instruments in the Biotechnology Lab. The Hands-on training programme was conducted in two batches (Morning-Afternoon sessions), where 45 B.Sc. students of Biological Sciences attended the training programme.

### **Training Programme on 'Microbiology Techniques' - July 28-30, 2023:**

A Hands-on Training Programme was organized on Microbiology Techniques for 20 Undergraduate Students (Biological Sciences) by Biotechnology Laboratory of BITM, Kolkata.

### **Nature Trail programme - August 12, 2023:**

A Nature Trail programme was organized by Birla Industrial & Technological Museum, Kolkata, in association with Howrah Vigyan Chetna Samannaya was conducted for the Biotech Lab members on August 12, 2023 at BITM's outdoor premises by eminent professors of Calcutta University.

### **Hands-on Workshop 'Basic Techniques in Biotechnology' - August 23 to 24, 2023:**

Biotechnology Lab's organized a Hands-on Workshop for 46 registered students on 'Basic Techniques in Biotechnology'.

### **Hands-on Workshop 'Basic Techniques in Biotechnology' - November 27 and 29, 2023:**

To provide hands-on training to students of classes IX-XII on 'Basic Techniques in Biotechnology', one day paid Workshop for 50 registered students was organized by Biotechnology Lab, BITM. Activities included introduction to Biotech Lab Equipment (Working principle & operation), Micropipetting Techniques, Gram staining of the Isolated Bacteria from Sample, Restriction Digestion, Agarose Gel Electrophoresis and Gel analysis.

### **Hands-on Training Programme 'Basic Techniques in Molecular Biology' - December 21-22, 2023:**

Biotechnology Lab, BITM, Kolkata conducted two batches of a two-day Hands-on Training Programme 'Basic Techniques in Molecular Biology', featuring introduction to Biotech Lab Equipment (Working principle & operation), Micropipetting Techniques, Restriction Digestion, Polymerase Chain Reaction (PCR), Agarose Gel Electrophoresis and Analysis of Gel - for 35 registered Undergraduate and Postgraduate students.

### **Popular Talk & Hands-on Activity at Biotech Lab, BITM - January 27, 2024:**

Popular Talk was delivered by Dr. Nabarun Ghosh, Professor of Biology and Advisor for Biology Education, Department of Life, Earth and Environmental Sciences, West Texas A&M University, Canyon on 'Global Warming, Particle Pollution, Diseases and Sustainability of the Biosphere', followed by Hands-On Activity on 'Assessing Chlorophyll - the Biomolecule Controlling the Sustainability of Higher Life Forms' at Biotechnology Laboratory of BITM, which was attended by 90 students.

### **Participation:**

- Some of the members of Biotechnology Laboratory, BITM participated in the 2nd Academia to Industry Interface Conclave presented by Dept. of Zoology, University of Calcutta at Ballygunge Science College from 6th to 8th October, 2023.
- A few members of Biotechnology Laboratory, BITM participated in the International Symposium on Biotechnology Organized by Postgraduate and Research Department of Biotechnology of St. Xavier's College (Autonomous), Kolkata, on 12th & 13th October, 2023.
- Members of Biotech Lab, BITM demonstrated various activities and projects to different interested students and visitors of the Eastern India Science and Engineering Fair 2024, at BITM from January 9-12, 2024.
- Member of Biotech Lab Shubhanon Ghosh, participated in the Eastern India Innovation Festival 2024 which was organized at Digha Science Centre & National Science Camp with his project 'Let's make our own Hand Sanitizer' during March 15 - 16, 2024.
- 36 members of Biotech Lab, BITM presented their project works at the end of their membership tenure on December 31, 2023.

### **Collaborative Programme:**

#### **Special Feature 'Gyan Jetha Mukto: Superstition vs. Science' for DD Bangla - February 28, 2024:**

Experiment-based Superstition vs. Science awareness segment, featuring BITM, Kolkata, part of DD Bangla's Science Day commemorative programme 'Gyan Jetha Mukto' was aired on February 28, 2024, to commemorate National Science Day 2024.

#### **Commemoration of World Wildlife Day - March 03, 2024:**

World Wildlife Day was observed with Digital Poster Presentation, inauguration of Raptor Exhibition 'Wings of Wonder', Story-Telling Session and Popular Talk by Dr. Kuladeep Roy, Assistant Manager, WWF-India at BITM, Kolkata, in collaboration with WWF-India on March 03, 2024.

#### **Special Feature 'Bigyan Prasange: Kusanskar Protirodhe Bigyan Chetana' for DD Bangla - March 20 & 21, 2024:**

Experiment-based Superstition vs. Science awareness segment featuring BITM, Kolkata – part of DD Bangla's 'Bigyan Prasange: Kusanskar Protirodhe Bigyan Chetan' series was aired on March 20 and 21, 2024.

## **Participation in Government Programmes & Initiatives:**

### **Commemoration of Hindi Pakhwada - September 15 to 28, 2023:**

Hindi Pakhwada was commemorated at BITM with competitions on Hindi Noting & Drafting, Slogan-writing on 'International Year of Millets', Speech on 'Impact of Success of Chandrayaan-3 on the Common Man' and 'Contribution of Indian Scientists in the Global Scenario', Hindi Book Exhibition and Hindi Workshop for the BITM staff members

### **Observance of Swachhata Pakhwada - October 01 - 31, 2023:**

Swachhata Pakhwada programme was observed with special cleaning of BITM premises, weeding out old files, cleaning of galleries, workshop and other sections, identification of scrap materials and disposing off the same, display of Waste-to-Art installations at BITM, Kolkata.

### **Observance of Vigilance Awareness Week - October 30 to November 05, 2023:**

An Open-House Quiz Contest was conducted for 210 students for observance of Vigilance Awareness Week, along with special cleaning of BITM premises, weeding out old files, cleaning of galleries, workshop and other sections, identification of scrap materials and disposing off the same, display of Waste-to-Art installations at BITM, Kolkata.

	Date	Topic	Name of the Speaker
1	06.04.2023	'Important Health Issues in Student Life'	Dr. Mouli Madhab Ghatak Sr. Physical Medicine & Rehabilitation Specialist; Secretary, Spinal Cord Society, West Bengal
2	02.05.2023	'Application of Mobile App in Weather Forecasting'	Shri Rabindra Goenka Founder, Weather Ultima
3	11.05.2023	'Development of Technology in India after Independence'	Dr. Kumardeb Banerjee, Dept. of Instrumentation & Electronics Engineering, Jadavpur University
4	05.06.2023	'Bird Migration'	Shri Kubalay Banerjee Journalist, Bird Enthusiast
5	05.06.2023	'Tales of Clouds'	Shri Rabindra Goenka Founder, Weather Ultima
6	22.06.2023	'বিজ্ঞান ভাবনায় রবীন্দ্রনাথ'	Dr. Syamal Chakrabarti, Former Prof. Department of Chemistry University of Calcutta
7	23.08.2023	Chandrayaan-3	Shri Tarun Das, Technical Officer Birla Industrial & Technological Museum
8	06.09.2023	'Aditya-L1 Mission - A Journey Towards the Sun'	Prof. Dipankar Banerjee, Director Aryabhata Research Institute of Observational Sciences (ARIES), Nainital

	Date	Topic	Name of the Speaker
9	30.11.2023	'The Elusive Aliens'	Prof. Sujan Sengupta, Senior Professor, Indian Inst. of Astrophysics, Bengaluru & Visiting Prof. of Physics, Ashoka University, Sonapat, Haryana
10	14.12.2022	'Energy Conservation for Environmental Protection'	Shri Prabir Kumar Raychaudhuri, Former Director & Chief Regional Coordinator, Eastern Region, PCRA
11	22.12.2023	'Glimpses of Euclidean Geometry'	Prof. Debabrata Nag Dept. of Mechanical Engineering, Jadavpur University
12	15.06.2022	'সুস্থ দেহ ও প্রশান্ত মন : খাদ্য এবং শারীরিক কার্যকলাপের গুরুত্ব'	Prof. Asim K. Duttaroy, Group Leader, Clinical Nutrition, Faculty of Medicine, University of Oslo, Norway and Member, Nobel Prize Selection Committee for Physiology or Medicine
13	27.01.2023	'Global Warming, Particle Pollution, Diseases and Sustainability of the Biosphere'	Dr. Nabarun Ghosh, Prof. of Biology and Advisor for Biology Education, Dept. of Life, Earth and Envi. Sciences West Texas A&M University, Canyon
14	22.02.2023	'Uncovering Space Weather: From Sun to the Earth'	Dr. Sanchita Pal, NASA Post Doctoral Fellow
15	27.02.2023	'Save Bees Save our Biodiversity'	Dr. Saikat Kr. Basu, Executive Research Director, PFS, Lethbridge, Alberta, Canada
16	28.02.2023	'The Well-kept Promise: A Journey to Cherish'	Dr. Aniruddha Ganguly, Academic Faculty, Dept. of Chemistry, Scottish Church College, Kolkata
17	29.02.2023	A Session with NASA Scientist Dr. Swati Mohan: Her Personal Journey	Dr. Swati Mohan, Mars 2020 Guidance, Navigation & Controls Operations Lead NASA's Jet Propulsion Laboratory, Pasadena, California
18	03.03.2023	Wild to wild translocation The story of Conservation tool	Dr. Kuladeep Roy, Assistant Manager, WWF-India – BITM, Kolkata
19	08.03.2023	'The Journey to Green Chemistry'	Dr. Kamalika Sen, Assistant Professor, Department of Chemistry, University of Calcutta
20	21.03.2023	'Projapoti Keno Pizza Khae Na'	Shri Judhajit Dasgupta, Former Assistant Editor, Desh Patrika Anandabazar Patrika Ltd

## **Science Camp, Workshops, Training:**

### **Science Camp 2023 (Batch 1) - May 22 to 26, 2023:**

Week-long interactive Science Camp for 323 students of classes 3 to 12, covering 109 projects in Play with Science, Geography & Basic-Astronomy, Mathematics: Ancient & Modern, Physics, Chemistry, Life Science, Electronics and Mobile App Development was conducted during the morning and afternoon sessions of the hands-on activity sessions of Batch-1. On May 25, 2023, separate workshop for around 220 parents on 'Daily Life Chemistry' was conducted by Mrs. Debjani Chakraborty, Former Teacher, The Future Foundation School.

### **Science Camp 2023 (Batch 2) - May 29 to June 02, 2023:**

Week-long interactive Science Camp for 234 students of classes 3 to 12, covering 96 projects in Play with Science, Geography & Basic-Astronomy, Mathematics: Ancient & Modern, Physics, Chemistry, Biotechnology, Electronics and Mobile App Development was conducted during the morning and afternoon sessions of the hands-on activity sessions of Batch-2. On June 01, 2023, separate workshop for around 210 parents on 'Daily Life Chemistry' was conducted by Mrs. Debjani Chakraborty, Former Teacher, The Future Foundation School.

### **PBSSM BITM Kolkata District Science Camp 2023 - September 21 to 23, 2023:**

For furtherance of scientific acumen of students, and fostering science learning through hands-on activities, BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX of Kolkata District from Beltala Girls' High School, Santoshpur Rishi Aurobindo Balika Vidyalaya, Jodhpur Park Boys School, Dum Dum Road Govt. Sponsored Girls' High School and Behala Girls' High School.

### **PBSSM BITM Hooghly District Science Camp 2023 - September 26, 27 and 29, 2023:**

For furtherance of scientific acumen of students, and fostering science learning through hands-on activities, BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX of Hooghly District from Serampore Girls' High School, Ushangini Balika Vidyalaya, Bagati Ramgopal Ghosh High School, Serampore High School and Bagati Shib Chandra Banerjee Girls' (HS) School.

### **PBSSM-BITM Howrah District Science Camp 2023 - October 03 - 05, 2023:**

For furtherance of scientific acumen of students, and fostering science learning through hands-on activities, BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering 15 Projects in Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX of Howrah District from Jagacha High School, Tentulkuly High School, Makardah Girls' High School, Bally Nischinda Chittaranjan Vidyalaya and Bargachia Union Priyanath Pathsala.

### **PBSSM-BITM North 24 Parganas District Science Camp 2023 - October 09-11, 2023:**

For furtherance of scientific acumen of students, and fostering science learning through hands-on activities, BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX of North 24 Parganas District from Barasat Binapani High School, Barasat Girls' High School, Bongaon Kumudini Uchha Balika Vidyalaya, NCP Manmatha Nath Girls' High School and Titagarh Krishna Nath Municipal High School.

### **PBSSM-BITM South 24 Parganas District Science Camp 2023 - October 12, 13 & 16, 2023:**

For furtherance of scientific acumen of students, and fostering science learning through hands-on activities, BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering 15

Projects in Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX of South 24 Parganas District from Batanagar Sri Ramkrishna Ashram Vivekananda Vidyamandir, Sarangabad High School, Bakhrahat High School, Bawali Gangaprasad High School and Kishorepur Girls' High School.

#### **Customized Science Workshop 'Science from the Shelves' - June 17, 2023:**

A Hands-on Science Workshop was conducted for 25 students of classes 5 to 6, covering 9 projects using principles of Air Pressure, Pascal's Law, Siphon Principle, Newton's Law and Simple Machine – using recycled bottles, straws and balloons, in the Assembly Zone of Children's Gallery at BITM, Kolkata.

#### **Hands-on Workshop for Kendriya Vidyalaya, Ballygunge - February 19-21, 2024 :**

A Hands-on Workshop was conducted from February 19-21, 2024 for 15 teachers and 150 students from classes VII-IX covering Science and Mathematics concepts and applications, under Rashtriya Avishkar Abhiyan.

#### **Education Extension Activity - July 31 to August 04, 2023:**

A Special Training session on Science Demonstration for Education Officers/Assistants of BITM, Kolkata and its satellite units was organized at BITM from July 31 to August 04, 2023.

#### **Mentoring for Training programme at CRTL, Kolkata on 'Operation & Maintenance, Exhibit Development for Science Centres / Innovation Hubs' - August 03, 06 and 07, 2023:**

A Special Training programme was organized by BITM Resource generation and demonstration by Director, BITM and Education Officers for Case Studies 'Artefact & Object Collection for Value addition to the Science Centre', Development of Educational Kits and Science Demonstration Lecture, Practical session on SDL Kit Development in Chemistry and Mathematics, assignment and visit to BITM, Kolkata – for 30 participants of CRTL, Kolkata's training programme on 'Operation & Maintenance, Exhibit Development for Science Centres / Innovation Hubs'.

#### **CRTL's Induction Training Programme of Curators at BITM, Kolkata – November 17, 24 and 30, 2023:**

Mentoring by Shri S. Chaudhuri, Director, BITM, of Induction Training of 08 Curators in curating Artefact-based Galleries, Astronomy & Taramandal Presentation, Science Demonstration Lecture and facilitation of sessions by Shri N. Dasgupta, Former Director CRTL's 'From Idea to Exhibit' and Prof. Soumitro Banerjee, Department of Physical Sciences, IISER, Kolkata's 'Research Methodologies in Science'.

### **Observance of Important Days:**

#### **Commemoration of eve of World Health Day - April 06, 2023:**

BITM, Kolkata and Prof. J. J. Ghosh Foundation jointly commemorated eve of World Health Day on April 06, 2023 with Popular Lecture 'Important Health Issues in Student Life' by Dr. Mouli Madhab Ghatak, Senior Physical Medicine & Rehabilitation Specialist; Secretary, Spinal Cord Society, West Bengal followed by Open-House Quiz 'WHO@75' celebrating the 75th anniversary of the World Health Organization this year. Over 100 students from Nabajatak Vidyabhavan for Girls; Techno India Group Academy; Saltlake Point School; Shri Shikshayatan School; Birla High School; Techno India Group Public School, Garia; Delhi Public School, Ruby Park and The Calcutta Emmanuel School attended the sessions.

#### **Commemoration of Earth Day - April 24, 2023:**

Earth Day Network, Regional Office, Asia and BITM, Kolkata jointly commemorated Earth Day on April 24, 2023 with 'Eco Comic Contest for Youth' with Workshop by artists Harsho Mohan Chatteraj and Charbak Dipta and writers Sourav Dutta and Sumit Surai. Over 70 students and teachers attended the sessions and competed in the event.

#### **Celebration of 64th Anniversary Day of BITM, Kolkata - May 02, 2023:**

BITM, Kolkata celebrated its 64th Anniversary Day with various events, viz. Interactive Word-Puzzle

'Shobdobaaji' featuring scientific terms, hosted by RJ Roy, Introduction of New Science Shows 'Beatific Bubbles' and 'Fun-tastic Physics', Workshops conducted by Shri Rabindra Goenka, Founder of Weather Ultima, Workshop on 'Scientific Toys from Trash', 'Day-time Astronomy', and 'Technical Use of Weather Apps'. Students from different Schools took part in this programme.

### **Commemoration of National Technology Day - May 11, 2023:**

National Technology Day was observed at BITM, Kolkata on May 11, 2023. Various educational activities, viz. Popular Lecture on 'Development of Technology in India after Independence' delivered by Dr. Kumardeb Banerjee, Dept. of Instrumentation & Electronics Engineering, Jadavpur University, followed by Open-House Quiz, Guided Tour to Galleries and High-Voltage Theatre was organized for the participants to commemorate this event,. Near about 400 numbers of students took part along with their escort teachers.

### **Commemoration of International Museum Day, Launch of New Gallery 'Vintage Voyage: Communication Technology' - May 18, 2023:**

New Gallery 'Vintage Voyage-Communication Technology', featuring over 75 vintage artefacts fostering connectivity, along with stories revealing the societal impact of such technologies was inaugurated at BITM, Kolkata on International Museum Day 2023.

### **Commemoration of World Environment Day - June 05, 2023:**

A day long programme was organized by BITM, Kolkata to commemorate World Environment Day on June 05, 2023. Various educational activities viz. Seed-ball distribution, jointly with 'Mother Earth Foundation'; Popular Lecture on 'Bird Migration' by Shri Kubalay Banerjee, Journalist, Bird Enthusiast; Observation of 'Zero Shadow Day'; Popular Lecture 'Tales of Clouds' by Shri Rabindra Goenka, Founder, Weather Ultima; Open-House Quiz and Film Show on 'Our Environment' was organized at BITM, Kolkata, attended by over 1400 students and teachers.

### **Commemoration of International Day of Yoga - June 21, 2023:**

Symbolizing the union of body and consciousness, Yoga session was performed by around 100 members of staff of BITM, Kolkata, led by Shri U. K. Dey, Former SMO, BITM, Kolkata.

### **Commemoration of Van Mahotsav - July 14, 2023:**

To commemorate Van Mahotsav, saplings were being distributed among 50 students from Sir Nripendra Nath Institution at BITM premises, in collaboration with Directorate of Forests, Govt. of West Bengal.

### **Commemoration of International Moon Day - July 20, 2023:**

Marking the anniversary of the first landing by humans on the Moon as part of the Apollo 11 lunar mission, BITM, Kolkata commemorated the International Moon Day. Around 450 students from Modern English Academy and Smt. Jahar Nandi Vidyapeeth celebrated achievements in the exploration of the Moon and sustainable Moon exploration and utilization, with active participation in Science Demonstration, Open-House Quiz and Film Show.

### **Commemoration of World Mangrove Day - July 26-27, 2023:**

Commemorating the International Day for the Conservation of the Mangrove Ecosystem - the rare, spectacular and prolific ecosystems on the boundary between land and sea; BITM, Kolkata, in collaboration with Mother Earth Foundation, Kolkata, commemorated World Mangrove Day with Tree Plantation, Seminar and Short Speech, attended by around 500 students from G. D. Birla Centre for Education, Mahadevi Birla Shishu Vihar, Shri Shikshayatan School and Ashok Hall Group of Schools.

### **Commemoration of 162nd Birth Anniversary of Acharya Prafulla Chandra Ray, in collaboration with APC Sammilanee - August 02 and August 21, 2023:**

The 162nd Birth Anniversary of Acharya Prafulla Chandra Ray was commemorated, by Garlanding of Scientist Busts at BITM by the officials on August 02, 2023 and organizing different educational activities viz. Educational Excursion, Popular Lecture 'Life & Works of Acharya Prafulla Chandra Ray' by Mr. Dipak Dan, Director, Gobardanga Gobeshana Parishad on August 21, 2023 for 80 students and teachers from Santisangha Siksha Mandir for Girls, in collaboration with APC Sammilanee.

### **Celebration of 77th Independence Day - August 13 to 20, 2023:**

A series of activities like, Façade lighting of BITM premises during August 13-15, 2023, distribution of the National Flag to members of staff on August 14, 2023, flag hoisting on August 15 and conduction of tricolor-themed Science Show 'Tales of Tricolour' during August 15-20 for schools and general audiences at BITM premises etc have been organized as part of the celebration of Azadi ka Amrit Mahotsav and Har Ghar Tiranga Campaigns.

### **Commemoration of National Engineers' Day - September 15, 2023:**

National Engineer's Day 2023 was commemorated at BITM, Kolkata by organizing different educational programmes, viz. Exhibit Hunt Contest, Film Show with special emphasis on Nuclear Achievements of India, Open-House Quiz Competition and Special Science Show for visually-challenged students, attended by 250 participants from different schools.

### **Commemoration of Birth Anniversary of Prof. Meghnad Saha - October 06, 2023:**

The 130th birth anniversary of Physicist and Nationalist Prof. Meghnad Saha was commemorated featuring Garlanding of Scientist Bust, an Autobiography Writing Contest, an Open-House Quiz, and a Screening of NCSM's Documentary 'Harbinger of Modern Astrophysics: Professor Meghnad Saha' - on October 06, 2023, attended by over 400 participants.

### **Commemoration of Birth Anniversary of Dr. Homi Jehangir Bhabha - October 30, 2023:**

114th birth anniversary of the "Father of the Indian nuclear programme", Homi Jehangir Bhabha was commemorated with the Garlanding of Scientist Busts.

### **Commemoration of Birth Anniversary of Sir C. V. Raman - November 07, 2023:**

The 135th birth anniversary of Sir Chandrasekhara Venkata Raman was commemorated, who was awarded the Nobel Prize in Physics in 1930 for his work on the "Scattering of light and the discovery of Raman Effect".

### **Commemoration of International Science Centre & Science Museum Day and World Science Day for Peace & Development on November 10, 2023:**

This International Science Centre & Science Museum Day on November 10, in conjunction with the World Science Day for Peace and Development, BITM highlighted the Central Theme - 'Building Trust in Science' with day-long activities for over 750 participating students from St Augustine's Day School, Kolkata; Calcutta Boys' School, Sonarpur and Shibrampur Junior Basic School, South 24 Parganas. Programs include guided tours to galleries, interactive science shows, and a screening of a science film, which was the Official Selection of the Goethe-Institut Science Film Festival 2023.

### **Commemoration of Children's Day - November 14, 2023:**

While celebrating the child in all of us, BITM commemorated Children's Day with the release of Gas Balloons carrying Environment-friendly Slogans, a Nature-Trail, a street drama by Underprivileged Children, an Open-Air Science Show, a Visual-Quiz on Birds, and a Screening of Official Selections to Goethe-Institut Science Film Festival 2023. Over 1300 students from Army Public School, Kolkata; Calcutta Diocesan, St. Saviour's School; St. Xavier's College, Jharkhand; Rajdanga Vidyapith; Zenith Institute; K. M. Primary School and NGO Endeavor (Prochesta) participated in the day-long event.

### **Commemoration of Birth Anniversary of Prof. Birbal Sahni - November 14, 2023:**

The 132nd Birth Anniversary of Prof. Birbal Sahni – the founder of Palaeobotanical research in India - was commemorated with the Garlanding of the Scientist Busts present at BITM premises.

### **Commemoration of World Children's Day - November 20, 2023:**

Providing an avenue for kids to reimagine a better future, World Children's Day - UNICEF's annual day of action for children, by children – was commemorated at BITM, Kolkata - with Kite Flying, Large Canvas Sketching, Open-Air Science Show and Screening of Official Selections of Goethe-Institut Science Film Festival 2023 for over 650 children.

### **Commemoration of Birth Anniversary of Acharya Jagadish Chandra Bose - November 30, 2023:**

165th Birth Anniversary of Acharya Jagadish Chandra Bose - the father of radio and wireless communication and a polymath with interests in biology, physics, botany and writing science fiction, was commemorated with Garlanding of the Scientist Busts at BITM premises.

### **Commemoration of National Energy Conservation Day - December 14, 2023:**

Raising awareness about energy efficiency and its conservation, BITM commemorated the National Energy Conservation Day with Popular Science Lecture 'Energy Conservation for Environmental Protection' by Shri Prabir Kumar Raychaudhuri, Former Director & Chief Regional Coordinator, Eastern Region, PCRA; Open-House Quiz and Slogan-Writing Competition on 'Energy Conservation' – attended by 195 students and teachers from Sukanta Primary School, Karaya Govt. School and Gonsaidas Paul Academy.

### **Commemoration of National Mathematics Day - December 22, 2023:**

Celebrating the joy to be found in mathematics BITM, Kolkata commemorated the National Mathematics Day - featuring Garlanding of Scientist Busts and Interactive Workshop 'Glimpses of Euclidean Geometry' by Prof. Debabrata Nag, Dept. of Mechanical Engineering, Jadavpur University with over 200 students and teachers.

### **Commemoration of Birth Anniversary of Satyendra Nath Bose - January 01, 2024:**

The 130th Birth Anniversary of Prof. Satyendra Nath Bose - mathematician and physicist par excellence, Father of God Particle – was commemorated by garlanding of Scientist Busts at the BITM premises.

### **Celebration of 75th Republic Day - January 26, 2024:**

Marking the adoption of India's Constitution and the country's transition to a Republic on January 26, 1950 - officials and members of staff at BITM, Kolkata commemorated the 75th Republic Day with façade lighting of BITM in tricolor and unfurling of the National Flag at the BITM premises.

### **Commemoration of National Science Day - February 27-29, 2024:**

Interactive Session 'Save Bees - Save our Biodiversity' - February 27, 2024

A Workshop on bee conservation, education & awareness for children of classes VI-VIII was conducted by Dr. Saikat Kr. Basu, Executive Research Director, PFS, Lethbridge, Alberta, Canada followed by a Popular Lecture, Nature Trail, and Open-House Quiz at BITM as a part of the commemoration of National Science Day 2024 on February 27, 2024.

### **Popular Lecture 'The Well-kept Promise: A Journey to Cherish' - February 28, 2024:**

A Popular Lecture on the discovery of the Raman Effect and Nobel-winning research of Sir C V Raman was delivered to students of classes IX-XII by Dr. Aniruddha Ganguly, Academic Faculty, Dept. of Chemistry, Scottish Church College, Kolkata. Open-House Quiz and Screening of BITM Documentary 'Characterizing Colour – Sir C. V. Raman at Work' - in collaboration with the Royal Society of Chemistry, Eastern India Section were also the part of commemoration of National Science Day 2024.

### **A Session with NASA Scientist Dr. Swati Mohan: Her Personal Journey - February 29, 2024:**

Dr. Swati Mohan, Mars 2020 Guidance, Navigation & Controls Operations Lead NASA's Jet Propulsion Laboratory, Pasadena, California, delivered a popular lecture before the students of classes IX-XII from different schools of Kolkata. The programme was organized in association with the United States Consulate General Kolkata as a part of the commemoration of National Science Day 2024.

### **Commemoration of International Women's Day - March 08, 2024:**

By celebrating those who paved the way to inspire inclusion as well as those who are carrying the torch further, BITM commemorated this International Women's Day - on March 08, 2024, featuring an Interactive Session 'The Journey to Green Chemistry' - by Dr. Kamalika Sen, Assistant Professor, Department of Chemistry, University of Calcutta; Open-House Quiz on the Life and Work of Women

Scientists and Film Show on 'Women in Science who Changed the World'. The sessions were attended by over 300 registered students from Matrix Modern School, Belegghata Deshbandhu Girls' High School, Agrasain Balika Siksha Sadan, New Horizon School, La Martiniere for Girls, Taki House Government Sponsored Girls' High School and Mitra Institution (Main).

### **Commemoration of International Day of Forests - March 21, 2024:**

BITM commemorated the International Day of Forests - on March 21, 2024, by celebrating Forests and Innovation – by featuring Popular Talk 'Projapoti Keno Pizza Khay Na' by Shri Judhajit Dasgupta, Former Assistant Editor, Desh Patrika Anandabazar Patrika Ltd.; Nature Trail Programme and Open-House Quiz on the topic 'Forest & Wildlife'. The day-long programme was attended by over 250 students and teachers from Taki House Government Sponsored Girls' High School, Sarat Chandra Sur Institution, and Chengail Shree Vidyaniketan High School (H.S).

### **Science Seminar:**

#### **Kolkata District Science Seminar 2023 - August 29, 2023:**

Students' Seminar on 'Millets - A Super Food or Diet Fad?' was organized at BITM Kolkata, for students from 18 schools in Kolkata, in collaboration with Dept. of Youth Services & Sports, Govt. of West Bengal

#### **West Bengal State Science Seminar 2023 - September 08, 2023:**

West Bengal State Science Seminar 2023 on 'Millets - A Super Food or Diet Fad?', was organized at BITM Kolkata for students from winning schools of East Midnapore, Purulia, East Bardhaman, Darjeeling and Kolkata - in collaboration with Dept. of Youth Services & Sports, Govt. of West Bengal and Royal Society of Chemistry, Eastern India Section. Commemorating the International Year of Millets - an opportunity to raise awareness of, and direct policy attention to the nutritional and health benefits of millets and their suitability for cultivation under adverse and changing climatic conditions – BITM also launched an exhibition 'Millets - The Superfood?', followed by Millet Fest at the BITM Canteen premises on the same day. After this inaugural session, participating students- winners of the District Level Science Seminar from Kolkata, Burdwan, Darjeeling, Purulia and East Midnapore districts, from classes VIII – X - delivered a presentation of 6-minutes duration, with supporting charts and visuals, followed by 2-minutes question-answer session with the judges on this topic. They were judged on the Scientific Content in Presentation, Fluency in Speech, Performance in Viva and Written Test along with Novelty in use of Visuals. Dr. Suman Majumder, Director R & D, Actylis; Dr Madhumita Dobe, Chairperson, FAITH (Foundation for Actions and Innovations Towards Health Promotion) and Former Director, Head of the Department of Health Promotion and Education, All India Institute of Hygiene & Public Health (AIIPH&PH), Kolkata and Dr. Partha Chakrabarti, Senior Principal Scientist, Cell Biology & Physiology, CSIR-Indian Institute of Chemical Biology consented to judge the participants. The winning student – Adrish Dhara, Mount Litera Zee School, Contai, East Midnapore was chosen to represent West Bengal in the National Science Seminar 2023, due to be held on October 12, 2023 at National Science Centre, New Delhi.

### **Science Drama Competition:**

#### **Kolkata District Science Drama Competition 2023-24 - September 13, 2023:**

Kolkata District Science Drama Competition 2023-24, themed 'Science & Technology for the Benefit of Mankind', was organized on September 13, 2023. With participants from Jyotirmai Vidyamandir, Belgachia Monohor Academy, Park Circus Girls' High School, Gangapuri Shiksha Sadan for Girls and Labanhrad Vidyapith for Girls winning hearts - 'Akbar ka Natun Mission: Birbal Bhangbe Superstition' (Bengali) by Mitra Institution (Main) won Third Best Drama Award - and qualifying for the West Bengal Science Drama 2023-24 were 'Pa e Projukti, Pho e Fondi' (Bengali) by Delhi Public School, Newtown Kolkata with Best Actor, Best Script Writer and Second Best Drama Award, along with 'Gift of Magi' (English) by Gokhale Memorial Girls' School with Best Actress, Best Director and Best Drama Award.

### **West Bengal State Science Drama Competition 2023-24 - September 20, 2023 :**

WB State Science Drama Competition 2023-24 themed 'Science & Technology for the Benefit of Mankind' was organized on September 20, 2023. Teams from Joynagar High School (HS), Purba Medinipur, Manbhum Victoria Institution, Purulia, Burnpur Girls' High School (H.S.), Paschim Bardhaman, Burdwan Harisava Hindu Girls' High School Morning, Purba Bardhaman, Delhi Public School Newtown, Kolkata staged their drama. 'Urhe Chalo Pakhira' (Bengali) by Banimandir Railway Higher Secondary School, Siliguri won the Third Best Drama Award and 'Gift of Maji' (English) by Gokhale Memorial Girls' School, Kolkata won Second Best Drama Award. The drama 'Muktadhara' (Bengali) by Mahishadal Gayeswari Girls' High School, Purba Medinipur, won the Best award and qualifying for the Eastern India Science Drama 2023-24.

### **Eastern India Science Drama Competition 2023-24 - September 27, 2023:**

In a run-up to National Science Drama Festival 2023-24, the Eastern India Science Drama Competition 2023-24 was organized on September 27, 2023. This year's Science Drama Competition was based on 'Science & Technology for the Benefit of Mankind'. The Eastern India Science Drama Competition 2023-24, was inaugurated by Dr. Soumitra Basu, Former Professor, Department of Drama, Rabindra Bharati University, Kolkata. Participating teams from Andaman & Nicobar Islands, Bihar, Sikkim, Odisha and West Bengal, with students from classes VI – X, staged their Drama within the stipulated duration of 30 minutes each. Two winning teams would represent Eastern India in the National Science Drama Festival 2023-24, due to be held during January 05-06, 2024 at Nehru Science Centre, Mumbai.

### **Underprivileged Students Visit:**

#### **Guided Tour of underprivileged students to Science City, Kolkata for inauguration of 'Gandhipedia' - December 27, 2023:**

Guided tour of 125 underprivileged students from Park Circus Girls' High School to Science City, Kolkata, on the occasion of virtual inauguration of 'Gandhipedia' – AI enabled portal of complete works of Mahatma Gandhi - developed by NCSM, in collaboration with IIT, Kharagpur and IIT, Gandhinagar - by Shri Arjun Ram Meghwal, Hon'ble Minister of State for Law & Justice (I/C), Parliamentary Affairs and Culture, Govt. of India.

### **Mobile Science Exhibition:**

#### **MSE Unit 'Arth Ganga' Tour - April 05-15, 2023:**

Over 7,000 visitors, including students and teacher escorts attended the MSE 'Arth Ganga' in 4 schools and 1 college of Purba Bardhaman during April 05 to 15, 2023.

#### **MSE at North 24 Parganas and Nadia districts - July 17-31, 2023:**

As a part of Outreach initiative of BITM, Kolkata, A Mobile Science Exhibition programme was organized at different Schools viz. Halisahar High School, North 24 Parganas and Durganagar Bipin Behari Vidyapith, Fulia Vidyamandir, Fulia Balika Vidyalaya, Fulia Kritibas Smriti Vidyalaya, Gobindapur Dwarikanath Institution, of Nadia district with the 'Heat & Temperature' Unit.

#### **MSE at Nadia district - August 01 to 31, 2023:**

As a part of Outreach initiative of BITM, Kolkata, A Mobile Science Exhibition programme was organized at different Schools viz. Santipur Muslim School, Sutragarh M N High School, Haripur High School, Baganchara School, Radharani Nari Sikhsha Niketan, Sarat Kumari Girls high School, Santipur Municipal School, Vivekanandanagar High School, Bathangachi High School, Shikarpur Vivekananda High School, of Nadia district with the 'Heat & Temperature' Unit.

#### **MSE at Nadia district - September 01 to 30, 2023:**

As a part of Outreach initiative of BITM, Kolkata, A Mobile Science Exhibition programme was organized at different Schools viz. Shikarpur Vivekananda High School, Madanpur Kendriya Adarsha Vidyalaya for Girls (H.S.), Pannalal Institution, Lichutala Vivekananda Adarsha Vidyalaya (H.S.), Pritinagar Bhudeb Smriti Vidyapith, Debnathpur Sarat Sarkar High School (H.S.), Siddheswaritala Institution, Bhowanipur High School, Tarakanj High School (H.S.), Karimpur Jagannath High School

(H.S.), Jamsheerpur BN High School, Kechuadanga B C Vidya Niketan (H.S.), Nadia and Halisahar Mallick Bag High School, of Nadia and North 24 Parganas district with the 'Heat & Temperature' Unit.

### **MSE at Nadia district - October 01 to 10, 2023:**

As a part of Outreach initiative of BITM, Kolkata, A Mobile Science Exhibition programme was organized at Kechuadanga B C Vidya Niketan (HS), Chakdaha Purbachal Balika Vidyapith, Nadia and Jaleswar High School (HS) and Mena Sarojini Pahar High School(H.S) of Nadia and North 24 Parganas district with the 'Heat & Temperature' Unit.

### **Science & Engineering Fair:**

#### **Kolkata District Science Fair 2023-24 - December 21-22, 2023:**

Showcasing 33 models by students from 20 schools of Kolkata on 'Science & Technology for Society' the Kolkata District Science Fair 2023-24 was conducted at BITM, Kolkata. While La Martiniere for Girls won the Special Prize; Adamas International School; Sri Sri Academy, Kolkata; Delhi Public School, Joka, South Kolkata and Putiary Brajamohan Tewary Institution (H.S.) qualified for the West Bengal State Science Fair 2023-24 - due for January 09-12, 2024 at BITM.

#### **Eastern India Science & Engineering Fair 2024 - January 09-12, 2024:**

47th Eastern India Science Fair and 21st Science and Engineering Fair - a four-day long mega competitive event, was conducted at BITM, Kolkata. 84 models and 26 projects by around 280 students from 84 schools and 17 colleges on Science & Technology for Society were showcased at the BITM premises during the period. Participants included winners from Bihar, Odisha, Sikkim and West Bengal. Besides the Science Exhibition, Quiz-Contest, Meet-the-Scientists and Science-Shows were organized for all participants during the period. The Fair was supported by The Neotia University, Ashok Hall Group of Schools, EILM, Indian Oil Corporation Limited, JIS Group, NSHM Knowledge Campus, P. C. Chandra Group and State Bank of India.

#### **Kolkata District Student-Youth Science Fair 2023-24 - January 29-30, 2024:**

Showcasing 27 models from Secondary Level, 24 models in Higher Secondary Level and 03 models in Undergraduate Level by students from schools and colleges of Kolkata on 'Science & Technology for Society', the Kolkata District Student-Youth Science Fair 2023-24 was conducted at BITM, Kolkata, in association with Department of Youth Services & Sports, Govt. of West Bengal & Kolkata Municipal Corporation.

#### **West Bengal State Student-Youth Science Fair 2023-24 - February 08-09, 2024:**

Showcasing 23 models from Secondary Level and Higher Secondary Levels each, 21 models in Undergraduate Level and 01 model in Post-Graduate Level by students from Schools, Colleges and University of 24 districts of West Bengal on 'Science & Technology for Society', the West Bengal State Student-Youth Science Fair 2023-24 was conducted by Department of Youth Services & Sports, Govt. of West Bengal at Vivekananda Yuva Bharati Krirangan, Salt Lake, in association with BITM, Kolkata.

### **Outreach Programme other than MSE:**

#### **Outreach Science Demonstration Lecture at Rahara Bhabanath Institution for Girls (H.S.), Khardah - April 13, 2023:**

Various Educational activities like Science Demonstration Lecture 'Acids, Bases and Salts', Astronomy Presentation 'Our Cosmic Address' and Mathematics Show 'Curious Calculations' was conducted for 162 students and teachers of Bhabanath Institution for Girls (H.S.), Khardah.

#### **PBSSM-BITM South 24 Parganas District Residential Sky-Observation 2023-24 - December 18-21, 2023:**

A Residential Sky-Observation programme, featuring presentation on Solar System, hands-on session on Basic Astronomy and Sky-Watching through telescope, was organized at various schools of South 24 Parganas District, viz. Nalgora Dham Baikuntha Vidyapith, Jamtala Bhagaban Chandra High School (H.S), Janapriya Nagar Janapriya Vidyalyaya (H.S.) and Howramari High School by BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, West Bengal.

**PBSSM-BITM Nadia District Residential Sky-Observation 2023-24 - January 02-03, 2024:**

A Residential Sky-Observation programme, featuring presentation on Solar System, hands-on session on Basic Astronomy and Sky-Watching through telescope, was organized at two different schools of Nadia District Kasturba Gandhi Balika Vidyalayas by BITM in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, West Bengal .

**PBSSM-BITM Malda District Residential Sky-Observation 2023-24 - January 04-25, 2024:**

A Residential Sky-Observation programme, featuring presentation on Solar System, hands-on session on Basic Astronomy and Sky-Watching through telescope, was organized at various schools (22 sites) of Malda District by BITM, Kolkata in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, West Bengal.

**Outreach Paid Programme :**

- Mobile Science Exhibition and Fun Science Show for approximately 300 students were organized at Saihati Junior High School, North 24 Parganas on October 11, 2023.
- Mobile Science Exhibition and various Educational activities were conducted for approximately 800 students at Assembly of Christ School, Barrackpore on October 12 & 13, 2023.
- A special Fun Science Show was organised for approximately 1,500 students of Don Bosco School, Liluah on October 18, 2023.
- Sky-watching session was arranged at Siddha Apartment, Rajarhat by BITM, Kolkata on November 23, 2023. for around 200 enthusiasts at the complex.
- As a part of outreach activities of BITM, Kolkata, a Mobile Science Exhibition on 'Machines in Everyday Life' was organized at B. D. Nagchaudhuri Smarak Vigyan Mela, Behala from December 22-24, 2023.
- As a part of outreach activities of BITM, Kolkata, a Mobile Science Exhibition on 'Heat & Temperature', was organized at Madhyamgram Paribesh Mela from December 30, 2023 to January 03, 2024.
- As a part of outreach activities of BITM, Kolkata, a Mobile Science Exhibition on 'Heat & Temperature', was organized at Konnagar Book fair & Flower Exhibition from January 13-14, 2024.
- As a part of outreach activities of BITM, Kolkata, a Mobile Science Exhibition on 'Heat & Temperature', was organized at Konnagar Book fair & Flower Exhibition from January 20-21, 2024.
- As a part of outreach activities of BITM, Kolkata, a Mobile Science Exhibition on 'Machines in Everyday Life', was organized at Ramkrishna Mission Blind Boys' Academy, Narendrapur on January 28 & 29, 2024.
- As a part of Outreach initiative of BITM, Kolkata, a Model of Vikram Lander used in Chandrayaan-3 Mission, Aditya-L1 spacecraft and panel exhibition were displayed by BITM, Kolkata at Meghnad Saha Smarak Vigyan Mela, Triangular Park, organized by Paschim Banga Vigyan Mancha from January 31-February 04, 2024.
- As a part of Outreach initiative of BITM, Kolkata, A Mobile Science Exhibition programme was organized on 'Machines in Everyday Life', at Aurangabad Vigyan Mela from March 07-11, 2024, featuring Fun-Science Show, Hands-on Workshop and Sky-observation with Telescope.

## **Shrikrishna Science Centre, Patna**

---

### **New Facilities:**

#### **Inauguration of a New 3D Film, February 1, 2024:**

A new 3D film, titled “Fly Me to the Moon” was inaugurated by Shri Nitin Navin Sinha, the Hon’ble Member of legislative Assembly (Bankipur Constituency) Patna on February 1, 2024 for the visitors. A total of 60 visitors including the dignitaries were present during the inauguration of the new film.

#### **Panel Exhibition on the Topic - “Millets: The Super Food”, October 16, 2023:**

On October 16, 2023, on the eve of World Food Day- 2023, a temporary Panel Exhibition titled- “Millets: The Super Food” was inaugurated by Prof. Dr. Rashbihari Singh, Former Vice- Chancellor of Patna University at SSC, Patna for the visitors and students to get the understanding of the role, importance and need of millets in future. Near about 135 participants took part and enjoyed the programme.

#### **Panel Exhibition on the Topic-Aditya L1 Mission, September 02, 2023:**

India's first solar mission, Aditya-L1 was successfully launched on September 02, 2023. To celebrate this historical moment, SSC, Patna had organized a Panel Exhibition on 'Aditya- L1'. The panel exhibition was inaugurated by Shri Amitabh, Project- Coordinator of Shrikrishna Science Centre. A total number of 155 visitors were present during the inauguration and live screening of 'Aditya-L1'.

#### **Launch of a New SDL on “Liquid Pressure”, September 29, 2023:**

A new Science Demonstration Lecture titled: "Liquid Pressure" was inaugurated on 29th September, 2023 on the occasion of International Day of Scientific Culture- 2023. This curriculum based new demonstration has been specially designed to promote hands-on activities among the students. . All total eighteen nos. Kits were developed on various principles and properties of liquid, such as Force of cohesion and adhesion, surface tension, density, Relation between force, pressure and area, Concept of siphon and fountains, Pascal's Law, Laws of floatation etc.

#### **Launch of a New SDL on “Introduction to EMI”, December 14, 2023:**

A new curriculum based Science Demonstration Lecture titled "Introduction to Electromagnetic Induction" was inaugurated on 14th December, 2023 on the occasion of National Energy Conservation Day- 2023. Kits were developed on various principles and properties of electricity and magnetism and electromagnetic induction. All total eighteen kits were developed on various topic viz. Oersted experiment, faraday laws of electromagnetic induction, Lenz law, electric generator and motor, eddy current, Self induction and Mutual induction for the demonstration. The science demonstration lecture was launched. All total 260 nos. of students took part in this event

### **Special Events:**

#### **Live Screening of Launch of Chandrayaan-3, July 14, 2023:**

Live Screening of the “Launch of Chandrayaan-3” was arranged for 110 nos. of visitors and school students in the auditorium of Shrikrishna Science Centre, Patna on 14th July, 2023.

#### **Live Screening of Soft Landing of Chandrayaan- 3, August 23, 2023:**

Live telecast of the soft landing of Chandrayaan-3 was screened for near about 310 visitors and school students at SSC, Patna on August 23, 2023. Glimpse of the Chandrayaan 1 and Chandrayaan 2 were shown before the screening of 'Chandrayaan 3' and a special SOS show on 'Moon' was arranged for the audience.

#### **Launch of 'Aditya L1' Mission, September 02, 2023:**

To celebrate the historical achievement of Aditya-L1, India's first solar mission, Shrikrishna Science Centre, Patna had organized a number of events for the students and general visitors. Live screening of the launch of Aditya- L1, Special Science on a Sphere Show on the topic: 'Sun and its Surface', on the spot quiz competition for the students and Panel Exhibition on 'Aditya- L1'. A total number of 155 visitors were present during the live screening of 'Aditya-L1'.

## **Innovation Hub Activity:**

### **Details of the activities organized at Innovation Hub (2023- 2024):**

The role of the Innovation Hub of SSC, Patna is to explain and to help them to understand the basic of Science & Innovation, who needs it. Various educational activities like organization of Workshops, Development of projects and participation were being organised throughout the year.

Different Workshops, like In-vitro Root Regeneration in plant /Fun with Chemistry/ Robotics & RC Bots/ Our Cosmic Address (Earth)/ Technoxian - World Robotics Chapionship (Wrc)/ “Ambulance Drone” /Micro aquatic Animals & Plants /Science in Daily Life – Experimental View /Wireless Bot making etc. were organised for the participants.

Various projects were developed by the students viz. Kabad se Jugad/ Tod-Fod-Jod /Electricity from Algae/ Home Automation/ Capillary Irrigation /Racing Drone for WRC /Wireless Robot for Racing in WRC /Smart Welding Helmet/ Space Debris Collector /AI Dengue Care.

Students from the Innovation Hub of SSC, Patna were also participated in “YANTRIKSHA” Competition 14-15 September 2023 and got second prize/ Bihar Innovation Challenges 2023 / Celestra Robotics Competitions by IIT Club. / Eastern India Innovation Festival” held in Digha Science Centre, Digha.

## **Collaborative Programmes:**

### **31st District Level Children Science Congress 2023, October 12, 2023:**

Shrikrishna Science Centre, Patna provided a catalytic support to Science for Society, Patna to organize a one day District level Teacher’s orientation cum training workshop on the topic: Understanding Ecosystem for Health and Well- Being, in which 34 teachers of various schools of Patna District present their ideas on the mentioned topic. The District Coordinator of National Children Science Congress, Shri Sandeep Kumar Daftuar presided over the programme and gave his valuable inputs to the teachers to make the projects more sustainable and useful for the society. Around 208 nos. of Teachers and students took part in the abovementioned programme.

### **31st State Level Children Science Congress-2023, November 22- 25, 2023:**

National Project Selection and Enrichment Workshop for the 31st State Level Children Science Congress-2023 was jointly organized by Science for Society, Bihar, and Shrikrishna Science Centre, Patna. This four-daylong programme was focused on the theme of "Understanding Ecosystems for Health and Well-being." Child scientists and their guiding teachers from all divisions of Bihar were selected to participate in this workshop and present their projects before a jury through power point presentations or posters. Out of the 50 projects, 30 were chosen to represent Bihar at the National level Children Science Congress-2023. The program witnessed a total of 1523 attendees.

### **Science Championship 2.0- Science Championship & Science Fair, November 30, 2023:**

A daylong Science Championship Competition cum Science Fair for Innovative Projects and 'Innovation' was organized by SSC, Patna in collaboration with Shivalik College of Engineering, Dehradun. More than 35 schools of Patna and nearby districts took in this programme and 92 projects were displayed for the competition. Ichteba Hussain from St. Karen's High School was awarded as the winner and Shashank Dev and Pranav Suman was awarded as the First and Second Runner-ups. Total 525 participants, guide teachers, parents and visitors were present during the programme.

### **District Level Exhibition & Project Competition (DLEPC-2023), December 16, 2023:**

The District Level (Patna) Exhibition & Project Competition was organized at Shrikrishna Science Centre, Patna in collaboration with Bihar Education Project Council, Patna. A total of 95 projects were displayed by the participants and were evaluated by the judges and out of 95 projects, 10 projects have been selected for the State level competition which will be organized in due course of time. The program witnessed a total of 2495 attendees.

## **Participation in Government Programmes & Initiatives:**

**Swachhta Pakhwada - 2023, April 16-30, 2023:**

Various cleaning drives and activities were being organized during the Swachhta Pakhwada celebration week- 2023. Slogan writing and Sit & Draw competition were organized on the occasion of World Earth Day- 2023 on the topic: "How to stop plastic pollution" to encourage the students to understand the current scenario and harmful effects of plastic pollution. A series of cleaning drives were also organized by the staff members of the centre.

**Swachhta Pakhwada- 2023, September 20 - October 04, 2023:**

To commemorate Swachhta Pakhwada-2023, a Swachhta pledge was taken by the staff members of SSC, Patna and a special cleaning drive had been taken in various Galleries and at Science Park. Apart from this a special lecture on 'Swachhta' and a discussion among the officials on waste disposal were also organized.

**Hindi Pakhwada Celebration - 2023, August 17, 2023:**

Hindi workshop on 'karyalin hindi prayog ki samanya trutiyaan aur unka nirikshan' was held on June 30, 2023 organized by BITM in which officials of SSC Patna have participated.

**Hindi Pakhwada Celebration- 2023, September 14 - 28, 2023:**

Shrikrishna Science Centre, Patna celebrated the Hindi Pakhwada-2023 by organizing various programs and competitions for its staff members. Competitions like Essay Writing, Speech Contest and Translation competitions were organized to encourage the members to use Hindi in their day to day life usages. On the occasion of Hindi Pakhwada-2023, a book exhibition of various genres of Hindi is also being organized from 23rd September, 2023 to 28th September, 2023 at SSC, Patna under the joint aegis of Rajkamal Prakashan and SSC, Patna.

**Hindi Workshop- 2023-24:**

- Hindi workshop on 'Rajbhasha karyanwayan mein aane wali samasyaon ka samadhan' was held on May 24, 2023 organized by NCSM in which officials of SSC Patna have participated.
- Hindi workshop on 'using of Hindi in office' was held on June 30, 2023 organized by BITM in which officials of SSC Patna have participated.
- Hindi workshop was held on September 19, 2023 organized by BITM in which officials of SSC Patna have participated.
- Hindi workshop was held on December 27, 2023 organized by BITM in which officials of SSC Patna have participated.
- Hindi workshop on 'Rajbhasha ke roop mein hindi atit ka gaurav va vartman ki chunautiyaan' was held on December 29, 2023, organized by NSC, Delhi in which officials of SSC Patna have participated.
- Hindi workshop on 'Timahi Report Ko Bharne Mein Aane Wali Samasyaein' was held on January 17, 2024 organized by NCSM in which officials of SSC Patna have participated.
- Hindi workshop on 'Rajbhasha Niyamawali' was held on February 07, 2024 organized by VITM, Bangalore in which officials of SSC Patna have participated.

**List of Popular Lectures (offline):**

	Date	Topic	Name of the Speaker
1	22.04.2023	Together we can sustain our Planet	Dr. Atul Aditya Pandey, Dept. of Geology, Patna University
2	05.06.2023	Impact of Air Pollution in Bihar	Prof. Dr. Ashok Kumar Ghosh Former Chairman, Bihar
3	11.07.2023	Population & Future	Prof. Dr. Rasbihari Singh Ex Vice-Chancellor, Patna University

	Date	Topic	Name of the Speaker
4	29.09.2023	The Face of Earth	Dr. Rashmi Komal, Assistant Professor Department of Botany, Science College, Patna University, Patna
5	14.12.2023	Energy Conservation	Prof. S. K. Verma, Vice-Chancellor Bihar Engineering University, Patna
6	22.12.2023	Mathematics in Daily Life	Prof. Ganesh Mahto, Pro Vice- Chancellor Patliputra University, Patna
7	12.01.2024	Stars & Different aspects of Aditya L1 Mission	Ms. Eesha Das Gupta Ph.D Research Scholar Dept. of Astronomy and Astrophysics University of Toronto, Canada
8	12.01.2024	Swami Vivekananda Ji and Youth	Shri Prabhat Kumar, Senior Editor Bihar News Network
9	24.01.2024	Basics of Botany and Medicinal Plants	Dr. Rashmi Komal, Asst. Prof. Dept. of Botany, Science College, Patna University
10	28.02.2024	Human Life & Environment	Prof. Dr. Ashok Kumar Ghosh Prof. and HOD, Research, Mahavir Cancer Institute and Research Centre, Patna
11	21.03.2024	Forest & Innovation	Dr. Gopal Sharma, Scientist E Zoological Survey of India, Patna

### **Camps, Training and Workshops:**

#### **Summer Vacation Hobby Camp- 2023, May 22-31, 2023:**

Summer Vacation Hobby Camp, 2023 was organized by SSC, Patna for the students of class V to XII. Different camps on various topics viz. Fun-BOT, Amazing Lights, Magical Chemistry, Scientific Toy Making, Basic Electronics, Microscopic Bio- Lab, Aero Modeling etc. were organized for the School students. All Total 71 nos. of kits were fabricated by 120 nos. of participating.

#### **District Level Teacher's Orientation cum Training Workshop-2023, July 28, 2023:**

A One Day District level Teacher's orientation cum training workshop was organized by SSC, Patna in collaboration with Science for Society, Patna on the topic: Understanding Ecosystem for Health and Well- Being, in which 80 nos. teachers from various schools of Patna District present their ideas on the mentioned topic. The District Coordinator of National Children Science Congress, Shri Sandeep Kumar Daftuar presided over the programme and gave his valuable inputs to the teachers to make the projects more sustainable and useful for the society. All total 80 nos. of teachers took part in this above mentioned event.

#### **Teacher's Training Programme -2023, August 7- 12, 2023:**

A six daylong Teachers' Training Programme was organized by SSC, Patna for the B.Ed. students from Patna Women's College. In this program, students were encouraged to make low cost science kits for their teaching purpose. Various Laws and principles of Physics, Biology, Mathematics and Astronomy were discussed with them. All total 32 nos. of Science students took part and fabricated 128 nos. of kits.

### **31st State Level Children Science Congress-2023, November 22- 25, 2023:**

National Project Selection and Enrichment Workshop on "Understanding Ecosystems for Health and Well-being" for the 31st State Level Children Science Congress-2023 were organized by Science for Society, Bihar, in collaboration with Shrikrishna Science Centre, Patna. Nominated Child scientists and their escort teachers from all divisions of Bihar took part in this workshop and presented their projects before a jury through power point presentations or posters. Out of the 50 projects, 30 were chosen to represent Bihar at the National level Children Science Congress-2023.

### **Hands on Activity Workshop on Energy Conservation, December 14, 2023:**

A workshop on hands-on-activity was organized for the students of class VII- X on the topic: "Effective technique of energy conservation in daily life" on the occasion of National Energy Conservation Day-2023. All total 82 nos. of participants took part and fabricated Street Light Controller and Timer Circuit using electronic component such as transistor, capacitor, resistance and LDR etc.

### **Hands on Activity Workshop on Mathematics, December 22, 2023:**

A hands-on-activity workshop was organized for the students of class VII- X on the topic: "Introduction to Mathematics" on the occasion of National Mathematics Day- 2023. All total 160 nos. of participants took part in this workshop and learned different concepts in mathematics which are basic in nature but can be visualize using the hands on activities such as: Number system, puzzles, geometrical shapes and properties of circles etc.

### **Hands on Activity Workshop on Plants identification, January 24, 2024:**

On the occasion of National Girl Child Day- 2024, a workshop on plants identification was organized specially for the girl students. They were taught about the different parts of the plants and leaves and usage of microscope. All total 55 nos. of participants took part in this event.

## **Observance of Important Days:**

### **International Day of Scientific Culture- 2023, September 29, 2023:**

International Day of Scientific Culture- 2023 was commemorated by Shrikrishna Science Centre, Patna on September 29, 2023. The goal of celebrating the International Day of Scientific Culture is to spread the concept of scientific culture, highlighting its importance in today's world; promoting the integration of science as part of citizen culture and underscoring the need for citizens in general to be scientifically educated. In this occasion, various educational programmes such as Painting Competition, New Science Demonstration Lecture, Popular Science Lecture on The Face of Earth Given by Dr. Rashmi Komal, Assistant Professor, Department of Botany, Science College, Patna University was arranged for near about 315 nos. of students, teachers and parents.

### **World Food Day- 2023, October 16, 2023:**

World Food Day-2023 was organized by Shrikrishna Science Centre, Patna on October 16, 2023. Various programs like speech competition and a panel exhibition were organized for students, teachers and general visitors.

### **Celebration of National Mathematics Day 2023, December 22, 2023:**

Shrikrishna Science Centre, Patna had organized a series of programs and activities for the students to commemorate National Mathematics Day- 2023. Various educational activities like Popular Science Lecture on "Mathematics in Daily Life" delivered by Prof. Ganesh Mahto, Pro Vice-Chancellor, Patliputra University followed by Written Mathematics Quiz, Interactive Workshop on Mathematics were organized for near about 385 nos. of students from different schools.

### **Celebration of National Girl Child Day 2024, January 24, 2024:**

National Girl Child Day-2024 was observed at SSC, Patna by organizing an exhibition on medicinal plants, displaying detailed information and their medicinal values. Additionally, a workshop on plants was conducted, where the internal structures of different parts of the plants were explained to the children. Leaf identification Competition, Popular Science Lecture and an Open House Quiz competition on medicinal plants were also arranged for near about 225 nos. of students.

## **District Science Centre, Purulia**

---

### **New Facilities:**

#### **Launch of a new hands-on demonstration on 'Liquid Pressure', November 10, 2023:**

A captivating new Science Demonstration Lecture on 'Liquid Pressure' was launched on November 10, 2023 on the occasion of International Science Centre and Science Museum Day.

#### **Launch of a new hands-on demonstration on 'Properties of Light', February 28, 2024:**

A captivating new Science Demonstration Lecture on 'Properties of Light' was launched on February 28, 2024 on the occasion of National Science Day at DSC, Purulia.

### **Innovation Hub Activity:**

#### **Arduino and Science Workshop for Vigyan Jyoti Scholars:**

Innovation Hub of DSC, Purulia has organized a workshop on Arduino and Basic Science from 22nd to 23rd January for the Vigyan Jyoti Scholars of Jawahar Navodaya Vidyalaya Purulia. During this sponsored programme 30 Vigyan Jyoti Scholars of the Institution has been trained how to prepare useful electronics gazettes using Arduino programme.

#### **Workshop on Development of IoT systems using Arduino:**

A 3- daylong workshop was organised for 54 students from Sainik School of Purulia at DSC Purulia from 21nd March to 23rd March, 2024. They make different working model like, motion sensor switch, IoT based weather station etc.

### **Collaborative Programmes:**

#### **Organized a free Dental Check-up Camp for Sabar Students:**

A Free dental check up camp was organized on 29th July, 2023 by DSC Purulia in collaboration with Purulia Protigya Foundation for Sabar students.

#### **One Day Workshop on Medicinal Plant and Terrace Garden:**

District Science Centre, Purulia organized a daylong workshop on Medicinal Plant and Terrace Garden in collaboration with the Department of Botany, Sidhu- Kanho – Virsha University, Purulia on 8th December, 2023 to create awareness among the people as well as the students. Dr. Argha Mukherjee, Ayurvedic Department of Deban Mahato Govt. Medical college and Hospital and Dr. Subrata Raha, HOD, Department of Botany, SKBU were present in valediction ceremony. Near about 160 students took part along with their teachers.

### **Participation in Government Programmes & Initiatives:**

#### **PBSSM DSC, Purulia District Science Camp 2023 - October 3 to 5, 2023:**

For persistence of Scientific Insight among the students, and fostering science learning through hands-on activities, DSC, Purulia in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX from various schools of Purulia District.

#### **PBSSM DSC, Bankura District Science Camp 2023 - October 9 to 11, 2023:**

For persistence of Scientific Insight among the students, and fostering science learning through hands-on activities, DSC, Purulia in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX from various schools of Bankura District.

#### **Purulia District PBSSM-BITM Sky Observation Programme, January 2 - February 3, 2024:**

A Residential Sky Observation Programme at KGBV Hostels was organized by DSC, Purulia in collaboration with PBSSM from January 2 - February 3, 2024 at 20 different schools of Purulia District.

A Hands-on Workshop on Basic Astronomy and Sky Observation were organized for residential Students of different KGBV hostels. About 2987 nos. of students along with teachers, and the general public were facilitated from this programme.

### **List of Popular Lectures:**

	<b>Date</b>	<b>Topic</b>	<b>Name of the Speaker</b>
1	07.04.2022	“Our Planet, Our Health”	Dr. Nayan Mukherjee, Sr. M. O. Deban Mahato Medical College & Hospital, Purulia
2	22.04.2023	“Invest in Our Planet”	Dr. Subrata Raha Assoc. Prof. & HOD, Dept. of Botany Sidhu-Kanho-Birsha University, Purulia
3	19.06.2023	“Achievements of Blaise Pascal - An Overview”	Shri Suman Karmakar Education Officer, DSC, Purulia
4	21.06.2023	“Yoga for Humanity”	Shri Millan Dutta, Yoga Expert, Sakti Sangah, Purulia
5	20.07.2023	Moon Landing: Necessity, History and Future Programme	Dr. Susanta Kumar Mondal Asst. Prof., Department of Physics Sidhu-Kanho-Birsha University, Purulia
6	22.04.2023	“Natural resources and it’s management through sustainable livelihood.”	Dr. Subrata Raha Assoc. Prof. & HOD, Dept. of Botany Sidhu-Kanho-Birsha University, Purulia
7	09.08.2023	“Nagasaki Day - 9th August”	Dr. Debasis Dhak Professor, Department of Chemistry Sidhu-Kanho-Birsha University, Purulia
8	02.09.2023	“Aditya L1 Mission”	Dr. Gorachand Chakraborty Asst. Prof, Dept. of Mathematics Sidhu-Kanho-Birsha University, Purulia
9	28.09.2023	“Rajbhasa Hindi”	Mrs Abhaya Satpati Hindi Teacher Kasturba Hindi Balika Vidyalaya, Purulia
10	29.09.2023	“Knowing our Hearts first”	Dr. Nayan Mukherjee Sr. Medical Officer Deban Mahato Medical College & Hospital Purulia
11	10.11.2023	“Science Centre Movement in India”	Shri Dhrubajyoti Chattopadhyay District Science Officer District Science Centre, Purulia
12	26.11.2023	“Indian Constitution - An Overview”	Smt. Mampi Paramanik, Asst. Prof., Dept. of Political Science J.K. College, Purulia

	Date	Topic	Name of the Speaker
13	15.12.2023	"Millets - Revive Nutri Cereals"	Shri Sanjib Kumar Bhattacharya Expert (Agro- forestry) Krishi Vigyan Kendra, Kalyan, Purulia.

## **Camps, Training and Workshops:**

### **Vacation Science Camp:**

Summer Vacation Science Camp was organized at DSC, Purulia from 15th May to 5th June, 2023. The purpose of this camp was to developed interest and to inculcate scientific enquiries among the students and to make them interested in project making in the fields of science by involving them in the world of practical abilities and skills, starting from the crude materials.

Sl. No.	Camp	No. of Students	No. of Projects
1.	Do it Yourself	28	11
2.	Life Science	28	10
3.	Chemistry	30	12
4.	Physics	30	09
5.	Robotics	32	04
6.	Arduino Programming	08	05
7.	Geography & Basics Astronomy	37	11
8.	Electrical & Electronics	22	09

### **Workshops:**

- A Popular Science Lecture on "Achievements of Blaise Pascal – An Overview" followed by a workshop on the same, was carried out by Shri Suman Karmakar, Education Officer, DSC, Purulia on June 19, 2023, This workshop was not only helping them to understand the life and significant contributions of Pascal to various disciplines but also helped them to explore the enduring relevance of his ideas in modern science and mathematics.
- A workshop on "Astronomy Related to the Activity of the Moon" was conducted by Shri Suman Karmakar, Education Officer at DSC, Purulia on Moon Landing Day on July 20, 2024. A brief idea about the phases of the Moon, the mechanisms behind lunar eclipses and tides, and the historical significance of lunar observations had been given to the participating students.
- A daylong workshop on "Repairing and Maintenance of Household Electrical Appliances for the Housewives" was organized by DSC, Purulia on December 15, 2023 to empower them with the knowledge and skills and made them self-sufficient..
- A workshop on "Folding and Unfolding of Mathematics" was organized by DSC, Purulia on December 22, 2024. The workshop helped them to understand the mathematical concepts through a creative and perhaps visual approach, akin to the way paper can be folded and unfolded to reveal hidden patterns or structures. This workshop on mathematics, offers a dynamic and interactive way to engage with mathematical ideas, fostering creativity, intuition, and appreciation for the beauty of mathematics.

- Teachers' Training Programme on hands-on demonstrations on Physics & Chemistry using TLM was organized at DSC, Purulia during February and March, 2024. About 50 nos. of teachers took part in this event and various teaching aids were being fabricated by them. The objective of the training was to impart a new methodology of science teaching as well as developing their skill in low-cost science kit making programme.

### **Observance of Important Days:**

01. World Health Day - April 7, 2023
02. Earth Day - April 22, 2023
03. International Astronomy Day - April 29, 2023
04. International Museum Day - May 18, 2023
05. World Environment Day - June 5, 2023
06. International Yoga Day - June 21, 2023
07. International Moon Day - July 20, 2023
08. Nature Conservation Day - July 28, 2023
09. Nagasaki Day - August 9, 2023
10. International Day of Scientific Culture - September 28, 2023
11. World Heart Day - September 29, 2023
12. International Science Centre & Science Museum Day - November 10, 2023
13. Children Day - November 14, 2024
14. 41st Anniversary Day - December 15, 2024
15. National Mathematics Day - December 22, 2024
16. National Science Day - February 28, 2024

## **Bardhaman Science Centre**

---

### **New Facilities:**

#### **Launch of a new hands-on demonstration on 'Magnificent Moon', August 23, 2023:**

In view of the recent advancement of India's Space Science and India's moon mission, a new hands-on demonstration on 'Magnificent Moon' was launched on August 23, 2023.

#### **Launch of a new hands-on demonstration on 'Liquid Pressure', November 10, 2023:**

A captivating new Science Demonstration Lecture on 'Liquid Pressure' was launched on November 10, 2023 on the occasion of International Science Centre and Science Museum Day.

### **Special Events:**

#### **Astro Night Programme May 30, 2023 :**

An Astro Night Programme was organized at Golapbag, Purba Bardhaman on 30.5.2023 by Bardhaman Science Centre. Near about 283 numbers of visitors were assembled and enjoyed the celestial bodies through telescope.

#### **Live Screening of Launch of the Chandrayaan - 3 July 14, :**

The live screening of the launch of Chandrayaan- 3 was organized by Bardhaman Science Centre on July 14, 2023 for the visitors. An open house quiz on astronomy was also organized for the visitors.

#### **Exhibition on ADITYA L1 on September 2, 2023:**

To commemorate the launch of the ADITYA L1 mission, a panel exhibition on ADITYA L1 was inaugurated at Bardhaman Science Centre on September 2, 2023. The Exhibition was inaugurated by Prof. Sourangshu Mukhopadhyay from the Department of Physics at Burdwan University. Near about 458 visitors took part in the said exhibition.

#### **Purulia District PBSSM-BITM Sky Observation Programme, January 2 - February 3, 2024:**

A Residential Sky Observation Programme at KGBV Hostels was organized by Bardhaman Science Centre in collaboration with Paschim Banga Samagra Siksha Mission, Under School Education Department, Government of West Bengal at 21 nos. of KGBV sites in Murshidabad and Birbhum District. A Hands-on Workshop on Basic Astronomy and Sky Observation were organized for residential Students of different KGBV hostels. Near about 1400 nos. of students along with teachers, and the general public participated in this programme.

#### **Underprivileged Student Visit:**

Bardhaman Science Centre organized a special visit campaign for the underprivileged students during the year 2023- 2024. A total 5,726 underprivileged students from different parts of West Bengal visited this centre and availed various educational facilities.

#### **Principals' Meet Programme, July 11, 2023A:**

A Principals' Meeting was organized at Bardhaman Science Centre on July 11, 2023 to enhance the visit of different CBSE and ICSE board schools at Bardhaman Science Centre. Different strategies regarding organizing various educational activities to be held in future were also discussed during this meeting.

### **Innovation Hub Activity:**

#### **Hands-on Workshop on Relay with IR Sensor, November 22, 2023 :**

Bardhaman Science Centre organized, a hands-on workshop on making signal system using relay and IR sensor. Around 62 nos. of participants from Local School and Innovation Hub, took part in the said programme.

#### **Hands-on Workshop on Soldering & De-soldering Method, December 24, 2023:**

Bardhaman Science Centre organized a hands-on workshop on Soldering and disordering procedure for the electronics enthusiasts. Around 67 nos. of participants from Local School and Innovation Hub, took part in the said programme.

# Glimpses of Events

## Birla Industrial & Technological Museum, Kolkata



An Exhibition on  
'Wings of Wonder', 2024



Vintage Voyage Gallery, 2023



Achieving of Aditya-L1  
2024



Eastern India Science and  
Engineering Fair 2024



West Bengal  
State Science Drama, 2023



Chandrayaan-3, 2023



World Children's Day 2023

Inauguration of Exhibition on  
**Cracking  
The Science Nobels  
2023**



# Glimpses of Events

## Bardhaman Science Centre, Bardhaman



District Science Fair



PBSSM - BITM Science Camp  
2023-2024



Teachers' Training  
Programme

## Digha Science Centre & National Science Camp, Digha



STEM Festival and  
Anniversary Day



PBSSM - BITM Science Camp  
2023-2024



Special Campaign 3.0



Eastern India  
Innovation Festival 2024

# Glimpses of Events

## District Science Centre, Purulia



International Science Centre & Science Museum Day, 2023



Science Fair at DSC, Purulia



Medicinal Plant Workshop

## Shrikrishna Science Centre, Patna



World Environment Day



National Science Day 2024



World Earth Day



## Exhibition on International Year of Millets 2023



# Glimpses of Events

## North Bengal Science Centre, Siliguri



Science Fair 2023-24



Commemorative Day Programmes



Science Drama



MSE Programme



Exhibition on  
'Achieving of Aditya-L1', 2024



Vacation Science Camp

## Exhibition on International Year of Millets 2023



**Hands-on Workshop on Sensor Elements Circuit, January 01, 2024:**

Bardhaman Science Centre organized a hands-on workshop on PIR sensor based circuit making. All total 74 students took part in this programme.

**Hands-on Workshop on Chemical Reaction, January 19, 2024:**

A Workshop on Chemical Reaction was organized by Bardhaman Science Centre for the Innovation Hub Members. Participants were taught about various types of Chemical reactions including Exothermic and Endothermic Reaction.

**Hands-on Workshop on Electronics Circuit Design February 02, 2024:**

A workshop on Electronics Circuit Design was organized by the Innovation Hub of Bardhaman Science Centre for the school students. All total 62 nos. of students from class VIII & IX took part in this programme.

**Tutorial on Arduino Hardware and Software, February 22, 2024 :**

A workshop on Arduino Hardware Interfacing with Peripheral Electronics Component was organized by Bardhaman Science Centre for the School students and Hub Members. All total 68 nos. of students took part in this programme.

**Hands-on Workshop on Robotics, March 24, 2024:**

A Lego Mind-storm kits based Robotic workshop was organized by Bardhaman Science Centre for the School students and Hub Members. All total 73 nos. of students took part in this programme.

**Software based Computer Training Workshop, March 29, 2024:**

Software based Computer Training Workshop was organized by Bardhaman Science Centre for the School students and Hub Members. All total 69 nos. of students took part in this programme.

**Collaborative Programmes:****Science Fair at 2nd Botanical Congress:**

Bardhaman Science Centre, in collaboration with Burdwan University and the Botanical Society of Bengal, organized a series of educational activities including an Interactive Science Demonstration with Liquid Nitrogen during the 2nd Botanical Congress at Burdwan University. Near about 2000 students and Local Youths took part in the abovementioned programme.

**Participation in Government Programmes & Initiatives:****Swachhata Campaign 3.0:**

Bardhaman Science Centre organized Swachhata 3.0 campaign. Several cleanliness drives were taken in the locality viz. Bidhan statue Tarabag more, Hospital Road, Golap-bag more etc. focusing on public Health and hygiene.

**Swachata Abhiyan, September 19th - October 2nd, 2024:**

Swachhata Abhiyan programme was being promoted by Bardhaman Science Centre from September 19th to October 2nd, 2024 in and around the Centre premises. All the staff members actively participated in the programme.

**Observance of International Day of Yoga, June 21, 2023:**

To commemorate the International Day of Yoga on June 21, 2023, a live demonstration programme on "Awareness of Yoga" was organized along with an Open-House Quiz on yoga, at Bardhaman Science Centre.

**Hindi Workshop, 30th June 2023:**

Bardhaman Science Centre organized a one-day workshop on official language in Hindi at Bardhaman Science Centre on 30th June 2023 All Officials and staff members took part in the above mentioned programme.

**Hindi Saptaha Samaroho, 14th - 21st September 2023:**

'Hindi Saptaha Samaroho' was commemorated by Bardhaman Science Centre from 14th to 21st September 2023. Different activities like Hindi Extempore Talk, Hindi Essay Writing and interactive sessions were organized to promote the richness of the Hindi language and its contribution to Indian culture among the staff members of this Centre.

**One-day workshop on Janbhagidari Activities - G 20, FLN, and NEP 2020, June 15, 2023:**

A daylong workshop on Janbhagidari activities - G 20, FLN, and NEP 2020 was organized by Bardhaman Science Centre in collaboration with the Kendriya Vidyalaya, Bardhaman, and Purba Bardhaman Sahodaya Complex, on June 15, 2023. All total 80 students from KV Burdwan and different CBSE schools of Purba Burdwan district took part in the above mentioned exhibition.

**List of Popular Lectures:**

	Date	Topic	Name of the Speaker
1	22.04.2023	Biosphere Reserves in India	Dr. Animesh Panja, Botanical Survey of India.
2	18.05.2023	Basic Ideas about Museum	Shri Shyamsundar Bera In-charge, Museum& Art Gallery The University of Burdwan
3	05.06.2023	Beat Plastic Pollution	Shri Arup Kumar Majhi Coordinator, District Bio-diversity Board.
4	30.06.2023	Rajbhasa Hindi Dhara 3(III) Ka Gyan	Shri Chaturanan Jha, PGT (Hindi), Kendriya Vidyalaya, Burdwan
5	21.06.2023	Yoga and Health	Shri Jayanta Kumar Hore, Yoga expert
6	28.07.2023	Mobile Uses: The Cyber Law in India	Prof. Sunil Karforma, Dean, The University of Burdwan
7	07.08.2023	People's Biodiversity Register- A tool of Biodiversity	Dr. Sumit Manna, Asst. Prof, Mayna College, Purba Medinipore
8	03.09.2023	Orientation Programme for Students	Dr. Mayuri Dutt, National Coordinator for Vidyarthi Vigyan Manthan (VVM)
9	20.09.2023	Overview of Ornamental Fishery Management	Shri Patit Paban Halder, Writer and Owner of Halder Hobby Center
10	20.12.2023	Manush Mahakashe: Kamon Jibon?	Prof. Suvro Chatterje, Dept. of Biotechnology The University of Burdwan
11	07.02.2024	AI Tools	Dr. Faruk Bin Poyen Assistant Professor, University Institute of Technology
12	28.02.2024	Viksit Bharat: The Microbial Technologies	Prof. Rajib Bandyopadhyay HoD, Dept. of Botany, The University of Burdwan.
13	08.03.2024	Women's Empowerment	Syed Tanveer Nasreen, Prof. in History The University of Burdwan

## **Camps, Training and Workshops**

### **Summer Vacation Camp (1st Phase) May 23-30, 2023:**

A Summer Vacation Camps (1st Phase) on Physics, Chemistry, Mathematics and Electronics was organized by Bardhaman Science Centre from May 23 to May 30, 2023. Total 64 numbers of students took part in the above mentioned camps.

### **Summer Vacation Camp (2nd Phase) June 07-14, 2023:**

A Summer Vacation Camps (1st Phase) on Physics, Chemistry, Mathematics and Electronics was organized by Bardhaman Science Centre from June 07 to June 14, 2023. All total 32 numbers of students took part in the above mentioned camps.

### **PBSSM-Bardhaman Science Centre Camp 2023 - October 04 to 06, 2023:**

For persistence of Scientific Insight among the students, and fostering science learning through hands-on activities, Bardhaman Science Centre in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX from various schools of Purba Bardhaman District.

### **PBSSM-Bardhaman Science Centre Camp 2023 - October 10 to 12, 2023:**

For persistence of Scientific Insight among the students, and fostering science learning through hands-on activities, Bardhaman Science Centre in collaboration with Paschim Banga Samagra Shiksha Mission, under School Education Department, Govt. of West Bengal conducted 3-day Science Camp, covering Physics, Chemistry, Life-Science, Mathematics, Electronics and Basic Astronomy for 50 students of class-IX from various schools of Paschim Bardhaman District.

### **Teacher's Training Programme, February 7 - 8, 2024:**

Bardhaman Science Centre organized Teachers' Training Programme for the trainee teachers from February 7-8, 2024. 28 nos. of trainee teachers from two different institutions were engaged in doing hands-on activities on different science topic. An interactive session on 'AI Tools' was taken by Dr. Faruk Bin Poyen, Assistant Professor, University Institute of Technology, Burdwan.

### **Workshop on 'Understanding the Weather Parameters & Effect of Global Warming', 28th April 2023:**

Bardhaman Science Centre organized a workshop on 'Understanding the Weather Parameters & Effect of Global Warming' on 28th April 2023 for the Innovation Hub members, Students and General people. Around 78 students participated in the abovementioned programme.

### **Workshop on Ornamental Fishery Management, September 19 and 20, 2023:**

Bardhaman Science Centre conducted a workshop on the 'Overview of Ornamental Fishery Management.' on September 19 and 20, 2023. The event attracted aquarists, hobbyists, and individuals interested in sustainable aquatic practices; providing valuable insights and practical knowledge. Around 238 nos. of students, & Local youth took part in the said programme.

### **Workshop on Mathematics, December 22, 2023:**

On December 22, 2023, Bardhaman Science Centre celebrated National Mathematics Day as well as the birth anniversary of Srinivasa Ramanujan by organizing hands-on workshop on mathematics for the students. Around 100 nos. of school students participated in this hand-on activity.

### **Workshop on 'Pi', March 14, 2024:**

Bardhaman Science Centre Celebrated Pi Day on March 14, 2024 by organizing a hands-on workshop on 'Pi'. All total 30 students from two different schools of Burdwan town, participated in the said workshop.

## **Observance of Important Days**

### **Observance of World Earth Day, April 22, 2023:**

World Earth Day was commemorated by Bardhaman Science Centre on April 22, 2023 by organizing various educational activities viz. Popular Science Lecture on "Biosphere Reserves in India" by Dr Animes Panja, Botanical Survey of India, An Open House Quiz on "Environmental Science etc for the school students. A total 97 students took part in the said event.

#### **Celebration of International Museum Day, May 18, 2023:**

Bardhaman Science Centre observed International Museum Day on May 18, 2024 by organizing a popular science lecture on 'Basic Idea about Museum' which was delivered by Dr Shyamsundar Bera, In-charge - Museum & Art Gallery, Burdwan University. An Open House Quiz on 'Museum in India' was also conducted on that day. A total 110 students took part in the said event.

#### **Celebration of World Environment Day, June 05, 2023 :**

World Environment Day was celebrated on June 05, 2023, at Bardhaman Science Centre by organizing various educational activities for the students and general public. Open House Quiz on "Plastic Pollution" and Painting Competition on "Pollution" were organized as parts of the celebration. Total 180 students participated in the abovementioned programme.

#### **Vigilance Awareness Week 2023:**

The Vigilance Awareness Week 2023 was observed by Bardhaman Science Centre from October 30 to November, 2023. Various activities like Pledge Taking, Sit and Draw Competition, Open House Quiz etc. were organized as a part of this observance.

#### **National Unity Day 2023, October 31, 2023:**

National Unity Day was celebrated by Bardhaman Science Centre on October 31, 2023 by organizing a 'Run for Unity' campaign.

#### **Celebration of International Science Centre & Science Museum Day, November 10, 2023:**

International Science Centre & Science Museum Day was observed at Bardhaman Science Centre on November 10, 2023, by launching a captivating new Science Demonstration Lecture titled "Liquid Pressure", providing attendees with valuable insights into this intriguing scientific concept. The celebration also featured an engaging open house quiz focused on "Science Museums in India."

#### **Celebration of Children's Day, November 14, 2023:**

Children's Day was commemorated by Bardhaman Science Centre on November 14, 2023. Various interactive activities like Sit & Draw Competition, Open House Quiz and a Popular Science Lecture were organized for school children.

#### **Celebration of National Mathematics Day, December 22, 2023:**

Bardhaman Science Centre celebrated National Mathematics Day as well as the birth anniversary of Srinivasa Ramanujan was celebrated by organizing hands-on workshop on mathematics for the students on December 22, 2023. A total 100 students participated in this hand-on activity workshop.

#### **Celebration of Anniversary Day, January 9, 2024:**

Bardhaman Science Centre celebrated its anniversary day on January 9, 2024 by organizing various types of educational activities viz. Sit and Draw competition for junior and senior group, Smell and guess competition for lady teachers and lady guardians, Open House Quiz competition for students and general visitors etc. All total 160 students along with their teachers and guardians took part in this programme.

#### **Observance of Republic Day, January 26, 2024:**

Bardhaman Science Centre observed Republic Day of India on January 26, 2024. A flag hoisting ceremony followed by An Open House Quiz was organized for the Staff members of the Centre.

#### **Celebration of National Science Day, February 28, 2024:**

National Science Day was celebrated on February 28, 2024 at Bardhaman Science Centre by organizing various educational activities viz. Popular Science Lecture on 'Viksit Bharat: The Microbial Technologies' by Prof. Rajib Bandyopadhyay, HoD, Dept. of Botany, The University of Burdwan,

Sit & Draw competition on 'Your Favourite Indian Scientist' , Interactive lecture on 'The Chemistry of Taste: How Molecules Influences our Culinary Experience' by Shri Nikhiles Biswas, DSO, Bardhaman Science Centre etc. for around 545 school students and general visitors.

**Celebration of International Women's Day, March 8, 2024:**

Bardhaman Science Centre celebrated International Women's Day March 8, 2024 by organizing various activities for the school students. A Popular Science Lecture on "Women's Empowerment" was delivered by Syed Tanveer Nasreen, Professor in History, Burdwan University. An Open House Quiz on 'Women's Scientist' was also organized as a part of the celebration. Total 348 students participated in the abovementioned programme.

**Celebration of Pi Day, March 14, 2024:**

Pi Day was celebrated on March 14, 2024 at Bardhaman Science Centre by organizing a hands-on workshop on 'Pi'. An open house visual quiz on 'Mathematics' was also organized on that day. A total 180 students took part in the said event.

## **North Bengal Science Centre, Siliguri**

---

### **New Facilities:**

#### **Display of a Panel Exhibition on “Millets: The Superfood?” August 17, 2023:**

As part of the week-long Celebration of the 26th Anniversary Day of North Bengal Science Centre and to commemorate the International Year of Millets 2023, A Panel Exhibition on Millets: The Superfood? was inaugurated on August 17, 2023.

#### **Panel Exhibition on Aditya L1, September 02, 2023:**

Indian Space Research Organisation (ISRO) successfully launched the first Solar Mission - Aditya L1 on September 02, 2023. To celebrate the remarkable achievements among students and general visitors the Panel Exhibition on Aditya L1 was inaugurated at NBSC on September 02, 2023.

#### **Inauguration of new 3D Film, January 31, 2024:**

North Bengal Science Centre Siliguri inaugurated a new 3D Film - Trapper's Adventure on January 31, 2024. Shri Debasis Sarkar, Secretary, Sky Watchers' Association of North Bengal, Siliguri attended the programme as Special Guest and inaugurated the facility.

#### **Screening of a New Documentary Film, August 17, 2023:**

As part of celebration of 26th Anniversary Day of North Bengal Science Centre on August 17, 2023, a documentary named “Shinning through Time: 25 years of NBSC”, was premiered.

### **Special Events:**

#### **Symposium on Artificial Intelligence, May 3, 2023:**

With an aim to encourage and ignite curiosity in young minds to explore this new age technology, a Symposium on Artificial Intelligence was organized by North Bengal Science Centre, Siliguri on May 3, 2023 involving under-graduate & post-graduate college & university students respectively. Dr. Tirthankar Ghosal from Oak Ridge National Laboratory, United States & Dr. Asit Barman from Siliguri Institute of Technology, Sukna were the keynote speakers and delivered their lectures on the different facets of AI starting from basics to Human Emotion Recognition to Generative AI to Investigations on Scientific NLP (Natural Language Processing), to name a few.

#### **Seminar on Advanced Ethical Hacking & Cyber Security, May 12, 2023:**

To sensitize the student community regarding cyber security and ethical hacking, a seminar was organized by North Bengal Science Centre (NBSC), Siliguri in association with Indian School of Ethical Hacking (ISOEH), Siliguri on May 12, 2023. Mr. Sandeep Sengupta, Director, Indian School of Ethical Hacking (ISOEH) delivered a lecture on the topic Cyber Security and Ethical Hacking on May 12, 2023.

### **Astronomy Education Programme:**

#### **Navobikshan: Special Sky Observation Programme**

##### **December 18 to 26, 2023 and from January 16 to 23, 2024:**

North Bengal Science Centre, Siliguri organised a special sky observation programme “Navobikshan” from December 18 to 26, 2023 and from January 16 to 23, 2024. A good no. of visitors enthusiastically participated in this special event and explored the celestial objects, especially Moon, Jupiter, and Saturn, in the night sky.

#### **Celebration of International Moon Day, July 20, 2023:**

NBSC, Siliguri celebrated International Moon Day by organizing different activities for the students on July 20, 2023. A Popular Science Lecture was arranged next on the topic “Destination Moon Aboard -Chandrayaan 3”. The lecture was delivered by Shri Debasis Sarkar, eminent Science Communicator and Secretary, Sky Watchers' Association of North Bengal, Siliguri, followed by a Visual Quiz Competition for the students on Astronomy and a Film Show. Special Digital Planetarium show was also arranged for the participating student-groups.

### **Outreach Astronomy Programme - Astro Nights, May 05, 2023 and June 02, 2023:**

To create awareness on Astronomy and different Astronomical phenomenon, North Bengal Science Centre organised Outreach Astronomy Awareness Programme – Astro Nights at Boys' Club Ground, Siliguri Municipal Corporation and Ramakrishna Mission, Sahudanghi on May 05, 2023 and June 02, 2023 respectively. During the programme Lecture with Multimedia Presentation on Astronomy, Sky Observation through Telescope was arranged. Large number of peoples from surrounding areas attended the programmes to observe the celestial objects.

### **Live Streaming of Launching of Chandrayaan-3, July 14, 2023:**

On July 14 at 2:35pm, the Indian Space Research Organization successfully launched Chandrayaan-3 on board an LVM3-M4 rocket from Satish Dhawan Space Centre. The remarkable achievements were live streamed at the gallery of North Bengal Science Centre. Large number of students and visitors assembled to observe the historical moments.

### **Live Streaming of Landing of Chandrayaan-3, August 23, 2023:**

Live streaming of the successful Landing of Chandrayaan -3 on the lunar surface near to the Moon's South Pole was arranged at the gallery of North Bengal Science Centre on August 23, 2023. A Multimedia Presentation on Astronomy – Our Celestial Neighbours and Open House Quiz on Lunar Exploration had also been arranged. Large number of students and visitors observed the historical moment.

### **Live Streaming of Launching of Aditya L1, September 02, 2023:**

The remarkable achievements of ISRO regarding the ) successfully launched the first Solar Mission - Aditya L1 on September 02, 2023, were live streamed at the gallery of North Bengal Science Centre. A Panel Exhibition on Aditya L1 had also been displayed for the visitors. A Multimedia Presentation on Aditya L1 Mission and Open House Quiz on the Astronomy were organized for the school students.

### **Organization of Blood Donation Camp:**

As part of the Anniversary Week Celebration, NBSC organized Blood Donation Camp in association with Siliguri Terai Lions Blood Bank, Siliguri. A total of 28 units of blood were collected in this camp. All staff-members of NBSC took part and donated Blood.

### **Outreach Environment Awareness Programme, April 27, 2023:**

As part of observance of Earth Day-2023, an Outreach Environment Awareness Programme was organised at Sarada Shishu Teertha, Sevoke Road on April 27, 2023. A lecture with multimedia presentation on the topic Save Our Planet was arranged for the students followed by an Open House Quiz Competition on Environment and Film Show on Climate Change.

### **Science Pavilion, February 15 to 20, 2024:**

As part of Outreach initiative, NBSC, Siliguri participated in the 40th Annual North Bengal Flower Show-2024 organized by Siliguri Horticultural Society from February 15 to 20, 2024 and set-up a Science Pavilion at the Flower Show. Photographs on Astronomy, Popular Science Exhibits, and Science Demonstrations were arranged in the pavilion. The Pavilion was well received & drew huge crowds on all the days.

### **Innovation Hub Activity:**

Innovation Hub of NBSC organized several activities during the year 2023-24.

#### **Workshop - Waste to Wealth, April 30, 2023:**

A Workshop on the topic Waste to Wealth organized on April 30, 2023 at Innovation Hub of NBSC. Students from different schools were engaged to make models using waste materials like plastic bottles, waste news paper etc.

#### **Symposium on Artificial Intelligence (AI), on May 3, 2023:**

With an aim to encourage and ignite curiosity in young minds to explore this new age technology, a Symposium on Artificial Intelligence was organized on May 3, 2023 involving under-graduate & post-graduate college & university students respectively.

### **Workshops at Innovation Hub:**

Following Workshops were also organized for students at Innovation Hub of NBSC in different occasions during the year 2023-24:

1. Life Under Microscope on 22.05.2023
2. From Paper to Possibilities on 09.07.2023
3. Creative Science Workshop on 21.08.2023
4. STEM Workshops from 03.10.2023 to 05.10.2023
5. STEM Workshops from 10.10.2023 to 12.10.2023
6. Creative Science Workshop on 10.11.2023
7. STEM workshop, on the subject Mathematics & Science, was organised at the Innovation Hub of NBSC on November 28 & 29, 2023 for the students of PM SHRI Kendriya Vidyalaya, Bengdubi to create scientific mindset among the students. Students were engaged to do hands-on experiments on Physics, Mathematics, Electronics.
8. Experiments with Water on 22.03.2024

The workshops aimed to enhance scientific knowledge and skills in these areas through hands-on projects and practical activities.

### **Scientific & Innovative Idea Competition:**

Scientific & Innovative Idea Competition was arranged on August 20, 2023 for the School students and Innovation Hub members. The day-long event recognized the zeal, enthusiasm, innovativeness, and outstanding efforts of the participants. It provided an excellent platform for the students to experience science-in-action and fostered a deeper appreciation for the subject. A Wall Magazine at Innovation Hub of NBSC was also launched on that occasion.

### **Workshop on Foldscope:**

Workshop on Foldscope, a paper-made simple microscope, was organised on 10.03.2023 at Innovation Hub of North Bengal Science Centre from 11:30 a.m. where students were made aware on assembling and usages of Foldscope. The workshop was arranged in association with K K Chatterjee Memorial Association, Kolkata. 41 Students from 6 different schools actively participated in the workshop. The event was highly appreciated by all the participating students and teachers.

### **Collaborative Programmes:**

1. NBSC in collaboration with Paschim Banga Samagra Shiksha Mission ( PBSSM) organised 02 nos. Three days-Science Camps for Jalpaiguri District and Siliguri Educational District.
2. National Mathematics Day was celebrated at North Bengal Science Centre, Siliguri on 22.12.2023 in association with Paschim Banga Vigyan Mancha & Rajkishore Bose Mathematical Society, Siliguri, various activities related to Mathematics were organized for the school students to popularize Mathematics and its various applications,
3. North Bengal Science Centre in association with Association for Improvement of Mathematics Learning, Siliguri celebrated birth anniversary of Galileo Galilei on February 15, 2024 by organizing Programme on Interactive STEM Learning at NBSC
4. NBSC, Siliguri in collaboration with Paschim Banga Samagra Shiksha Mission organized a Residential Sky Observation Programme in different KGBV Hostels in six (06) districts of North Bengal involving the girl-students.

### **Participation in Government Programmes & Initiatives:**

#### **Observance of Swachhta Pakhwada from April 16 to 30, 2023:**

As part of observance of Swachhta Pakhwada from April 16 to 30, 2023, a Special Cleanliness Drive was taken by North Bengal Science Centre, Siliguri. As part of the fortnight-long cleanliness drives, various actions viz. Cleaning of the Exhibits, Models and Store materials, thoroughly cleaning Canteen, Digital Planetarium, Rain Water Harvesting Project and Main Gate had been undertaken.

Auditoriums and Innovation Hub were cleaned properly. All the drains were cleaned to avoid any clogging and blocking. The staff members of NBSC took Swachhta-pledge and participated actively in the Special Cleanliness Drive organized during the Swachhta Pakhwada. As part of observance of

Swachhta Pakhwada, a Workshop on the topic Waste to Wealth organized for the local School Students on April 30, 2023 at Innovation Hub of NBSC.

### **Celebration of India's Independence (Azadi Ka Amrit Mahotsav), August 13-15, 2023:**

On the momentous occasion of the India's Independence, a myriad of activities were organized by NBSC, Siliguri from August 13-15 2023 under the aegis of Azadi Ka Amrit Mahotsav.

Aug. 13, 2023- As part of Har Ghar Tiranga campaign, the National Flag was unfurled and all the staff members participated in this event.

Aug. 14, 2023- Various Out-reach programmes viz. Triranga Quiz Competition and Triranga Rongoli Making were arranged for the school students.

Aug. 15, 2023 - The celebration of Independence Day started with the hosting of the National Flag followed by the unveiling of a selfie-point – Tiranga ke Sath. Various educational activities involving school students like March with Tiranga, Meri Maati Mera Desh. The Centre received encouraging footfall of more than 5500 visitors on that day.

### **Swachhata Hi Seva & Celebration of Gandhi Jyanti, October 1 & 2, 2023:**

Gandhi Jyanti was celebrated at North Bengal Science Centre on October 1 & 2, 2023 by arranging different activities and awareness programme on Swachhata. Various activities like Swachhata Pledge, Sapling Plantation & special cleanliness drive of the Science Park & its adjacent areas were conducted. Prof. Bibhuti Bhusan Sarangi, Principal, Siliguri B.Ed. College was the Chief Guest on this occasion and Shri Vivek Kumar, Deputy Commandant, Regional Response Centre, 2 BN NDRF, Siliguri was the Guest-of-Honor. On October 2, 2023, as part of Celebration of Gandhi Jyanti, Sit & Draw Competition on Clean and Green Environment, Film Show on Swachhata (Cleanliness) and Visual Quiz Competition had been arranged for the school students and general visitors.

### **Observance of International Day of Yoga, June 21, 2023:**

In order to create awareness in the society about Yoga and its benefits; International Day of Yoga was celebrated at North Bengal Science Centre, Siliguri on June 21, 2023 involving school students and staff members of the centre. Swami Purneshwaranandaji Maharaj, Ramakrishna Mission, Sahudangi, Jalpaiguri inaugurated the programme and delivered the lecture on the topic Yoga for Peace and Harmony. Swami Purneshwaranandaji Maharaj, in his lecture, described the need of Yoga for creating peace and harmony in the society. Shri Sudipta Kumar Jana, PET, Banimandir Rly. H.S. School, an eminent yoga expert, conducted a Lecture-cum-Demonstration session on yoga which was attended by staff members of NBSC & a group of school students. A film show on yoga was also arranged for the visitors.

### **Rajbhasha related Activities:**

#### **Celebration of Hindi Diwas & Hindi Week at North Bengal Science Centre:**

In order to instill the spirit of progressive use of Hindi in official works and in science popularization activities, Hindi Week was celebrated at North Bengal Science Centre from 14.09.2023 to 20.09.2023. During this week various competition and activities such as News Paper Reading Competition, Hindi Dictation Competition were organized for the staff members of the centre.

On the occasion of Hindi Diwas, on 14.09.2023, various activities in Hindi viz. Quiz Competition, Popular Lecture on Artificial Intelligence by Shri Bipin Kumar Gupta, Ex-Teacher, Bharti Hindi Vidyalaya etc. were organized at North Bengal Science Centre. A large number of students and teachers from five different schools namely Bharti Hindi Vidyalaya, Dr. Rajendra Prasad Girls' Hindi High School, Siliguri Deshbandhu Hindi High School and Ila Pal Choudhary Memorial Hindi High School, Siliguri Hindi High School for Girls participated in the programme. As part of celebration of Hindi week, a workshop on 'Different Dimensions of Official Language Implementation' (राजभाषा कार्यान्वयन के विविध आयाम) was organized at North Bengal Science Centre, Siliguri on 19.09.2023. This workshop was conducted by Shri Amrit Raj Thapa, Deputy Manager (Rajbhasha), Administrative Office Siliguri. All the officers and employees of NBSC participated in this workshop.

#### **Observance of Vigilance Awareness Week, October 30 to November 05, 2023:**

Integrity Pledge taking Ceremony was organized on 30th October, 2023 as part of observance of Vigilance Awareness Week at North Bengal Science Centre, Siliguri from October 30 to November 05, 2023. On November 3, 2023, Slogan Writing Competition, Quiz Competition and Sensitization Lecture had been organized for the school students. The lecture was delivered by Shri Ritabrata Biswas, Project Coordinator, North Bengal Science Centre on “Role of Vigilance in Daily life – An Overview”. The programme was concluded with distribution of prizes to the successful participants.

### **List of Popular Lectures:**

	<b>Date</b>	<b>Topic</b>	<b>Name of the Speaker</b>
1	03.05.2023	Generative AI to Investigations on Scientific NLP (Natural Language Processing)	Dr. Tirthankar Ghosal, Scientist National Centre for Computational Sciences, Oak Ridge National Laboratory, USA
2	03.05.2023	Human Emotion Recognition	Dr. Asit Barman, Asst. Professor Department of Information Technology Siliguri Institute of Technology
3	12.05.2023	Cyber Security and Ethical Hacking	Mr. Sandeep Sengupta, Director, Indian School of Ethical Hacking (ISOEH)
4	05.06.2023	Beat Plastic Pollution	Prof. Ranadhir Chakraborty Dept. of Biotechnology University of North Bengal
5	21.06.2023	Yoga for Peace and Harmony	Swami Purneshwaranandaji Maharaj Ramakrishna Mission, Sahudangi, Jalpaiguri
6	20.07.2023	Destination Moon Aboard Chandrayaan- 3	Shri Debasis Sarkar, Secretary, Sky Watchers' Association of North Bengal, Siliguri
7	18.08.2023	Millet Farming: Connecting the missing link between food security and nutrition security	Dr. Sujit Sarkar, Scientist, IARI, Kalimpong
8	18.08.2023	Millet - The Nutri-cereals	Ms. Poulami Pandit Dietician & Nutritionist Neotia Getwel Multispeciality Hospital, Siliguri
9	22.08.2023	Stars, Constellations & Basic Facts of Astronomy	Shri Biswajit Kundu, Education Officer, NBSC
10	23.08.2023	Global Warming & Natural Hazards	Dr. Suprakash Roy Teacher & Eminent Educationist, Siliguri
11	14.09.2023	Artificial Intelligence	Shri Bipin Kumar Gupta, Ex-Teacher Bharti Hindi Vidyalyaya, Siliguri
12	03.11.2023	Role of Vigilance in Daily life – An Overview.	Shri Ritabrata Biswas, Project Co-ordinator, North Bengal Science Centre
13	22.12.2023	Srinivasa Ramanujan: A Legend of Mathematics	Shri Swapanendu Nandi Headmaster (Retd.) Haiderpara Buddha Bharati High School Siliguri

	Date	Topic	Name of the Speaker
14	22.12.2023	Hands-on Mathematics	Shri Asis Pal, Headmaster (Retd.) Siliguri Jagadish Chandra Vidyapith Siliguri
15	22.12.2023	Solving Mathematical Puzzles	Shri Rathin Paul, Secretary Rajkishore Bose Mathematical Society, Siliguri
16	31.01.2024	3D Imaging: What and How?	Shri Debasis Sarkar, Secretary Sky Watchers' Association of North Bengal, Siliguri
17	28.02.2024	Indigenous Technology for Vikshit Bharat: Examples & Impact	Shri Ritabrata Biswas, Project Co-ordinator, North Bengal Science Centre, Siliguri
18	28.02.2024	Robotics & Artificial Intelligence	Dr. Dipanjan Bhattacharjee, Asst. Prof. Dept. of Electronics & Communication Engineering Sikkim Manipal Institute of Technology

### **Camps, Training and Workshops:**

#### **Vacation Science Camps, May 22, 2023 to June 09, 2023:**

North Bengal Science Centre organized Vacation Science Camps on different topics: Science Sparkle ( for Class 3 to 7), Tinkering Science ( for Class 7, to 9) , SCI-Lab: Learning through Experimentation (for Class 9 to 12), Basic Electronics & Robotics (Class 8 to 12) from May 22, 2023 to June 09, 2023 for school students. During the camps, the students are being engaged for performing hands-on science experiments and making science projects. Total 114 students participated in the camps.

#### **Science Camps for Jalpaiguri District and Siliguri Educational District:**

NBSC in collaboration with Paschim Banga Samagra Shiksha Mission organized two 3 day long Science Camps for Jalpaiguri District and Siliguri Educational District where 50 enthusiastic students per camp would take part and enjoyed different hands-on science experiments on the topics Physics, Chemistry, Mathematics, Biology, Astronomy and Electronics. These Science Camps were organized from October 03 to 05, 2023 for Siliguri Educational District and from October 10 to 12, 2023 for Jalpaiguri District respectively.

#### **STEM Workshop on Mathematics & Science, November 28 & 29, 2023:**

A STEM workshop on Mathematics & Science, was organized at the Innovation Hub of NBSC on November 28 & 29, 2023 for the students of PM Shri Kendriya Vidyalaya, Bengdubi to create scientific mindset among the students. Students were engaged to do hands-on experiments on Physics, Mathematics, and Electronics. Total 50 students from class VIII, IX & XI, actively participated in the workshop.

#### **Teachers' Training Programme - I, November 9-11, 2023:**

A 3-day Teachers' Training Workshop was conducted for the science teachers of G.D. Goenka Public School, Siliguri at North Bengal Science Centre, Siliguri, from November 9-11, 2023 - with the fabrication of low-cost TLMs, SDLs, etc. to supplement the science education given in schools thereby fostering a spirit of scientific enquiry & creativity among the students. Total 10 science teachers participated in the workshop.

#### **Teachers' Training Programme – II, January 29, 2024:**

A Teachers' Training Programme was organized for the students of Siliguri B.Ed. College from

January 29, 2024 to February 01, 2024. Participants were trained to prepare teaching aids for making the teaching process more interactive and effective. Total 18 nos. of trainee teachers took part in the programme.

### **Observance of Important Days:**

#### **Celebration of Earth Day, April 22, 2023:**

Earth Day - 2023 was commemorated at North Bengal Science Centre, Siliguri on April 22, 2023. Various activities like Sapling Plantation, Open House Quiz Competition on Environment, Film Show on Climate Change etc. were organized for students and general visitors. Programme was concluded with prize distribution to the winners.

#### **Celebration of International Museum Day -2023, May 18, 2023:**

International Museum Day was celebrated at North Bengal Science Centre on May 18, 2023 by organizing a series of activities viz. Multimedia Presentation on NBSC- 25 Years in Popularising Science, Exhibit Hunting Competition, Open House Quiz on "Museum & Heritage", Indigenous Cultural Programme etc. for students and general visitors.. A good number of students from various schools took part and enjoyed the programme.

#### **Celebration of International Day for Biological Diversity, May 22, 2023:**

North Bengal science Centre Siliguri celebrated International Day for Biological Diversity on May 22, 2023. The celebration was started with a Multimedia Presentation on Biodiversity followed by a Workshop on Life under Microscope for the school students. They also participated in making slides of living cells. Quiz on Biodiversity and Environment was also arranged on that occasion.

#### **Celebration of World Environment Day, June 05, 2023:**

North Bengal Science Centre, Siliguri celebrated World Environment Day on June 05, 2023. The programme started with a Sapling Plantation programme. A Popular Science Lecture on Beat Plastic Pollution was delivered by Prof. Ranadhir Chakraborty, Dept. of Biotechnology, NBU. Quiz on Nature, Film Show on Environment were also arranged where a large group of students, teachers & general public actively took part.

#### **Celebration of Anniversary Week, August 17 - 23, 2023:**

NBSC, Siliguri celebrated its Silver Jubilee Year by organizing year-long activities from Aug'22 – Aug'23 and Week-long Concluding Ceremony of Silver Jubilee Celebration of NBSC had been organized from Aug. 17 – 23, 2023.

Day 1 Aug. 17, 2023- Inauguration of an exhibition on Millets: The Superfood? and gastronomical experience – Millets on Plate by Ms Priyanka Singh, IAS, Sub-Divisional Officer, Siliguri in the august presence of Dr. Mayukh Sarker, Principle-in-Charge, APC Roy Govt. College, Siliguri followed by screening of a documentary on Shinning through Time: 25 years of NBSC and an Open House Quiz was arranged for the participating students.

Day 3 Aug. 19, 2023- Sit and Draw competition, Show - Science through Ventriloquism and Special Science Demonstration Lecture were arranged for the school students

Day 4 Aug. 20, 2023- Scientific & Innovative Idea Competition was arranged for the School students and Innovation Hub members. A Wall Magazine at Innovation Hub of NBSC was also launched on that occasion.

Day 5 Aug. 21, 2023- Creative Science Workshop, Science Demonstration Lecture and Experimental Quiz were organized where 42 students from different schools actively participated.

Day 6 Aug. 22, 2023- A Blood Donation Camp was organized in association with Siliguri Terai Lions Blood Bank, Siliguri. A popular lecture on the topic – Stars, Constellations & Basic Facts of Astronomy, was delivered by Shri Biswajit Kundu, Education Officer, NBSC followed by a Slogan Writing competition and Visual Quiz for the school students.

ideas in young minds, Creative Science Workshop was arranged at the Innovation Hub of North Bengal Science Centre where students were engaged in doing hands-on experiments.

#### **Celebration of World Science Day for Peace and Development, November 10, 2023:**

North Bengal Science Centre, Siliguri celebrated the World Science Day for Peace and Development on November 10, 2023 by conducting several programmes for school students. Special Science Demonstration Lecture, Creative Science Workshop, Science Film Show on Environment, Audio Visual Quiz on Biodiversity and Environment were organized for the school students.

#### **Celebration of Children's Day, 14th November, 2023:**

North Bengal Science Centre celebrated Children's Day by organizing different educational activities like Special Science Show, Visual Science Quiz competition on 14th November, 2023. Special Digital Planetarium Shows were also organized for the participating students.

#### **Celebration of National Mathematics Day, December 22, 2023:**

National Mathematics Day was celebrated on December 22, 2023 by North Bengal Science Centre, Siliguri in collaboration with Paschim Banga Vigyan Mancha & Rajkishore Bose Mathematical Society, Siliguri. To commemorate this event various Educational activities like Open House Quiz, Symposium etc. were organized for the school students.

In the symposium different lectures like "Srinivasa Ramanujan: A Legend of Mathematics" by Shri Swapanendu Nandi, Headmaster (Retd.), Haiderpara Buddha Bharati High School, "Hands-on Mathematics" by Shri Asis Pal, Headmaster (Retd.), Siliguri Jagadish Chandra Vidyapith and "Solving Mathematical Puzzles" by Shri Rathin Paul, Secretary, Rajkishore Bose Mathematical Society, Siliguri were delivered.

#### **Celebration of National Science Day, February 28, 2024:**

National Science Day was celebrated on February 28, 2024 North Bengal Science Centre, Siliguri. A Popular Science Lecture on the topic 'Indigenous Technology for Vikshit Bharat: Examples & Impact' was delivered by Shri Ritabrata Biswas, Project Co-ordinator, North Bengal Science Centre for the participating students. Dr. Dipanjan Bhattacharjee, Assistant Professor, Department of Electronics & Communication Engineering, Sikkim Manipal Institute of Technology delivered a lecture on Robotics & Artificial Intelligence. At the end Visual Science Quiz on the topic Science & Technology in India was arranged.

#### **Celebration of International Women's Day, March 8, 2024:**

International Women's Day on the theme "Invest in Women: Accelerate Progress" was commemorated at North Bengal Science Centre, Siliguri on March 8, 2024 by organizing a host of activities involving school students and general visitors. The program began with a Multimedia Presentation on "Great Indian Women" followed by Visual Quiz Contest on the same topic. Film shows on Women in Science had been screened on this occasion. A Special Science Show was also arranged for the visitors.

#### **Observance of World Water Day, March 22, 2024:**

On March 22, 2024, North Bengal Science Centre (NBSC), Siliguri, celebrated World Water Day by organizing a series of activities viz. a Multimedia Presentation on "Water Conservation & Sanitation", a hands-on Workshop on "Experiments with Water" and a Visual Quiz contest.

## Digha Science Centre & National Science Camp

---

### New Facilities:

#### **Panel Exhibition: “Millets: The Super food?”:**

On the eve of the Closing Ceremony of the Silver Jubilee Celebration of DSC, Digha, a new panel exhibition named “Millets: The Super food?” was inaugurated by Dr. S. Balakrishnana, Scientist & Officer-in-Charge, Marine Aquarium & Regional Centre, ZSI, New Digha on August 31, 2023. About 150 students along with their teachers took part in the said programme.

#### **Launch of a new hands-on demonstration on ‘Liquid Pressure’, September 01, 2023:**

A captivating new Science Demonstration Lecture on ‘Liquid Pressure’ was launched on September 01, 2023 on the occasion of Anniversary Day celebration.

### Special Events:

#### **Astro-Night Programme:**

DSC, Digha introduced a special outreach programme, “Astro-Night”, a Sky observation Programme through the telescope, to benefit school students and the general public. The “Astro-Night” Programme was also organized at different blocks of the Purba Medinipur district in May 2023. Around 800 students, villagers and tourists took part in this programme.

#### **International Yoga Day June 21, 2023:**

International Yoga Day was observed at Digha Science Centre on June 21, 2023. Various Yoga activity sessions were performed by Digha Yogasana Kendra. A Popular Lecture on the benefits of Yoga was delivered by Shri Balaram Das, a Yoga Instructor, at Digha Yogasana Kendra. 110 nos. students, teachers, staff members of DSC, Digha, and the general public participated in this programme.

#### **Live Streaming of the Launch of Chandryaan-3, July 14, 2023:**

Live streaming of the “Launch of Chandryaan-3” was arranged at DSC, Digha on July 14, 2023, for around 200 visitors.

#### **Awareness Session on Dengue Prevention, August 06, 2023:**

An Awareness Session on “Dengue Prevention” was organized by DSC, Digha on August 06, 2023. Prof. Soumendranath Chatterjee, Department of Zoology, University of Burdwan, discussed the broad aspects of the topic.

#### **STEM Festival 2023, August 31 - September 01, 2023:**

Digha Science Centre has organized two days of “STEM Festival 2023” on August 31 & September 01, 2023. The programme was inaugurated by the Director, BITM. Shri Amiya Kr Kalidaha, Sr. Scientific Officer, DSTBT, GoWB and Dr. Wadut Shaikh, Assistant Prof., Dept. of Physics, M. G. Mahavidyalaya, Purba Medinipur delivered a popular lecture on “Future Technology & Carrier Opportunity and Innovation” and “Origin of Universe at CERN” respectively in this programme.

#### **Milk Mission for Children, August 15, 2023:**

A “Milk Mission” programme was organized in collaboration with Nabasopan, an NGO from Hridaypur, Kolkata on August 15, 2023, at DSC, Digha. During this programme, various activities such as Street Drama on “Environment Awareness”, Beach cleaning, distribution of milk, biscuits & cake to the underprivileged children and their guide teacher, visit of students to different galleries of DSC, Digha & Science demonstration show were performed. Around 45 nos. of underprivileged students and their teachers took part in this programme.

#### **Closing Ceremony of Silver Jubilee Celebration, August 31, 2023:**

The closing Ceremony of the Silver Jubilee Celebration of DSC, Digha was observed on August 31 & September 01, 2023. An SDL on “Liquid Pressure”, Herbarium Methodology with Hands-on-practices, a Science Show on “Mind Blowing Mathematics” and an Open House Quiz were organized for around 300 students, teachers, and general visitors.

**Celebration of Launch of Aditya-L1, September 2, 2023:**

To celebrate the Launch of Aditya-L1 various activities like a Popular Science Lecture titled “Journey to the Sun” by Shri Amit Kumbhakar, Education Assistant, DSC, Digha, live screening of the launch of Aditya-L1 & Open House Quiz etc. were organized by DSC, Digha on September 2, 2023. Around 84 nos. students, teachers as well as the general public participated in the said programme.

**An interactive Session on Origami, September 10, 2023:**

An interactive session on Origami was conducted for the students of Innovation Hub on September 10, 2023, at DSC, Digha. Students gathered exposure to creating different geometrical and natural objects, animals, birds, etc. by paper cutting and folding. 19 students participated in this session.

**District Level Science Drama Competition 2023, September 12, 2023:**

East Midnapore District Level Science Drama Competition 2023 was held at DSC, Digha on September 12, 2023. Eight teams from different schools took part in this Drama Competition. Mahishadal Gayeswari Girls’ High School & Joynagar High School received the first prize and second prize for their Drama “MUKTADHARA” and “ATHA DAINI KATHA” respectively. About 155 participants took part in this programme including students, escort teachers, guardians, and visitors.

**Annual Science Quiz Competition 2023, October 11 - 13, 2023**

The Annual Science Quiz Competition 2023 was organized from October 11 – 13, 2023 at DSC, Digha for school students. A total of 16 teams from 16 different schools participated in this year's competition. Overall 15 games with 70 rounds were performed during the entire competition. Mandar High School (H.S) & Bodhra Panteswari High School (H.S) won the first prize and second prize respectively. About 187 nos. of participants took part in this programme including students, escort teachers, guardians, and visitors.

**Bankura District PBSSM Sky Observation Programme, December 10 - 21, 2023:**

A Residential Sky Observation Programme at KGBV Hostels was organized by DSC, Digha in collaboration with PBSSM from December 10 - 21, 2023 at different blocks of Bankura district. A Hands-on Workshop on Basic Astronomy and Sky Observation were organized for residential Students of different KGBV hostels. About 1767 nos. of students, teachers, and the general public were facilitated from this programme.

**Jhargram District PBSSM-BITM Sky Observation Programme, January 9 -11, 2024:**

A Residential Sky Observation Programme at KGBV Hostels was organized by DSC, Digha in collaboration with PBSSM from January 9 -11, 2024 at different schools of the Jhargram district. A total of 420 students, 27 teachers and 30 non-teaching staff from 3 different KGBV Schools and hostels were present and enjoyed the Programme. A PowerPoint-based Hands-on Astronomy Kit Fabrication Workshop & Sky-Observation with Telescope were arranged for the student participants.

**Special programme on “Taramandal Show & Night Sky Observation” including MSE at Haldia Mela, February 2 to Feb 4, 2024:**

A special paid Outreach Programme on “Taramandal Show & Night Sky Observation” including the MSE programme has been organized by DSC, Digha on the occasion of the 45th Annual Flower Show at Haldia Refinery Township, IOCL, Haldia from February 2 to Feb 4, 2024. A huge footfall of visitor’s viz. 4400 visitors at the exhibition site, 602 visitors at Taramandal show & 1730 visitors at Night Sky Observation programme, was observed.

**Intellectual Property Right Clinic, February 25, 2024:**

An Intellectual Property rights clinic was organized by DSC, Digha on February 25, 2024, with an aim to encourage young inquisitive minds to innovate and make them aware of the Intellectual Property Rights in simple language. A popular lecture on this context was delivered by Shri Amiya Kumar Kalidaha, Senior Scientific Officer, DSTBT, GoWB before 26 students and teachers.

**Special paid outreach programme on “Taramandal Show & Night Sky Observation” including MSE programme, March 1 to 3, 2024:**

An Outreach Programme on “Taramandal Show & Night Sky Observation” including the MSE was

organized by DSC, Digha at Mahishadal Swimming Club, Purba Midnapore, from March 1 to 3, 2024. A huge footfall of visitor's viz. 1530 visitors at the exhibition site, 229 visitors at Taramandal show & 270 visitors at Night Sky Observation programme, was observed.

### **Innovation Hub Activity:**

#### **Innovation Hub Exposure Visit:**

An exposure visit to the Innovation Hub of DSC, Digha was organized on 15th July 2023 for a group of around 20 students from Nrityadharanjali Dance School, Mecheda, Purba Midnapore. The objective and activities of the Innovation Hub were demonstrated to the students.

#### **Eastern India Innovation Festival 2024:**

"Eastern India Innovation Festival 2024" was organized at DSC, Digha on March 15th & 16th, 2024. A series of competitive & non-competitive events viz., Model Display, Nature Trail Programme, Kavi Sammelan, Cultural Programme etc. were organized for the school and college students. Students and Mentors from different Innovation Hubs of various Science Centres & Museums under NCSM were also participated in this programme. The programme was inaugurated by Prof. Krishna Kumar, Dean, Faculty of Science, IIT, Kharagpur on March 15, 2024. Dr. S. Balakrishnana, Joint Director & Officer-in-Charge, Marine Aquarium, ZSI, Digha, chaired the valedictory function on March 16, 2024. All total 55 nos. of students participated with their 31 models at this festival. Around 2487 nos. of teachers, students & visitors attended this festival.

### **Participation in Government Programmes & Initiatives:**

#### **Observance of Hindi Pakhwada:**

"Hindi Pakhwada" was observed at DSC, Digha from September 14 to 29, 2023. To commemorate this programme various activities like an Essay Writing Competition, Extempore talk, and Quiz on Hindi etc were organized. Hindi Workshop was conducted by Dr. Sanjay Kumar, Professor, YBN, University Ranchi & Dr. Swarupa Podder, Assistant Professor, Santipur B.Ed College, Santipur, Nadia, West Bengal respectively. About 42 nos. of students and guests participated in this programme.

#### **Special Swacchta Hi Sewa Campaign 3.0:**

As part of Swachhta Pakhwada, a Special Campaign named Swacchta Hi Sewa 3.0 was organized at DSC, Digha from October 01- 31, 2023. Various activities such as the Beach Cleaning Programme, Cleaning of the outdoor space in the office, Popular Lecture on the Swachh Bharat Mission by Shri Biswarup Das, Education Officer, DSC, Digha, Waste to Art workshop, Cleaning of the Premise named "Shramdan" by the Officers & staff-members of DSC, Digha etc were organized. Shri Pabitra Ganguly, Circle Inspector of Police, Contai, Purba Medinipur encouraged the students from different schools to join the beach cleaning programme. 82 nos. of students, teachers and staff members of DSC, Digha took part in the said programme.

#### **Observance of Vigilance Awareness Week:**

Vigilance Awareness Week – 2023 was commemorated at Digha Science Centre from October 30 to November 5, 2023, by organizing various activities like Pledge-taking ceremony on Integrity, Open House Quiz on the theme "Say no to corruption: commit to the Nation" etc.

### **List of Popular Lectures:**

Date	Topic	Name of the Speaker
1 22.04.2023	Hot Earth - the Global Effect	Shri Amiya Kalidaha Sr. Scientific Officer, Dept. of Science & Tech. and Biotech Govt. of West Bengal

	Date	Topic	Name of the Speaker
2	18.05.2023	Exploring the Origin of Universe at CERN	Dr. Wadut Shaikh, HOD & Asst Professor, Dept. of Physics, Mugberia Gangadhar Mahavidalaya, Purba Midnapore, WB
3	05.06.2023	Eight Billion Brain, One Planet, Consume with Care	Dr. Sudipta Ghorai Asst. Prof., Dept. of Zoology, Egra SSB College, Purba Midnapore
4	21.06.2023	Benefit of Yoga for Human Health	Shri Balaram Das Yoga Instructor, Digha Yogasana Kendra, Purba Medinipur, WB
5	20.07.2023	Lunar Missions & India	Mr. Amit Kumbhakar, Education Asst. DSC, Digha, Purba Medinipur, WB
6	28.07.2023	Forests and Livelihoods: Sustaining People and Planet	Shri Biswarup Das, Education Officer DSC, Digha, Purba Medinipur
7	16.08.2023	Seaweed Diversity of India	Dr. Aparna Sharma Assoc. Prof. YBN University, Ranchi, Jhrakhand
8	31.08.2023	Future Technology & Carrier Opportunity and Innovation	Shri Amiya Kalidaha Sr. Scientific Officer, Dept. of Science & Tech. and Biotech, Govt. of West Bengal
9	31.08.2023	Origin of Universe at CERN	Dr. Wadut Shaikh HOD & Asst. Prof., Dept. of Physics, Mugberia Gangadhar Mahavidalaya Purba Midnapore, WB
10	02.09.2023	Journey to the Sun	Mr. Amit Kumbhakar, Education Asst. DSC, Digha, Purba Medinipur
11	08.10.2023	Swachh Bharat Mission	Shri Biswarup Das, Education Officer DSC, Digha, Purba Medinipur
12	10.11.2023	Role of Sc. Centres & Museums in Sc. Education and Social Awareness	Shri Biswarup Das, Education Officer DSC, Digha, Purba Medinipur
13	27.12.2023	Cyber Crime and Legal Prevention	Dr. Shashi Nath Mandal Assoc. Prof. & Dy. Director of Public Instruction, Dept. of Higher Education, Govt. of West Bengal
14	25.02.2024	Intellectual Property Right Clinic	Shri Amiya Kalidaha Sr. Scientific Officer, Dept. of Science & Tech. and Biotech, Govt. of West Bengal
15	28.02.2024	Ready today for tomorrow	Dr. Supraksh Roy Sr. Lecturer & President, Institute Innovation Council, HBITM, Raniganj, Paschim Bardhaman
16	22.03.2024	Water for Peace	Shri Biswarup Das, Education Officer DSC, Digha, Purba Medinipur

## **Camps, Training & Workshop:**

### **Vacation Science Camp:**

Summer Science Camp on different topics viz. Physics, Chemistry, Biology, Geography & Basic Astronomy, Electronics & App Development were organized at DSC Digha from May 23 to 31, 2023. All total 53 science projects were completed by 64 nos. of participating students.

### **Workshop on Foldscope:**

A workshop on Foldscope was organized by DSC, Digha on July 26, 2023 for the school's students. Dr. Ramdas Chatterjee, President of K. K. Chatterjee Memorial Association conducted this workshop. All total 24 students from three different schools took part in this programme.

### **Purba Medinipur District PBSSM Science Camp:**

Science Camp 2023-24 was organized at DSC, Digha from October 04 to October 06, 2023 in collaboration with PBSSM, Govt. of WB for Purba Medinipur District. All total of 50 nos. of students from 5 different schools along with their escort teachers took part in this camp. A brief exposure on various subjects viz. Physics, Chemistry, Mathematics, Basic Astronomy, Life Science, and Electronics was given to them.

### **Curator Training Programme:**

A "Curator Training Programme" was organized at Digha Science Centre on December 02 & 03, 2023, for the newly appointed curators in the NCSM (Hqrs.). Different activities like Power Point Presentation based discussion on "How a busy science centre runs", Demonstration on various exhibits including detailed observation of various facilities of the centre; Science Demonstration Lecture and Beach Sky Observation programme were organized.

### **Workshop on Cyber Crime and Legal Prevention, December 27, 2023, at DSC:**

A Community Program on "Cybercrime and Legal Prevention" was organized on December 27, 2023, at DSC, Digha for about 51 participants. The workshop was conducted by Dr. Shashi Nath Mondal, Assoc. Professor and Dy. Director of Public Instruction, Department of Higher Education, GOWB, in the presence of Mr. Pavitra Kumar Ganguly, CI of Police, Contai Division. The workshop dealt with various practical examples and ways to stay safe from it.

### **Interactive Workshop on Plant Tissue Culture Techniques, February 20, 2024:**

A day-long interactive workshop on "Plant Tissue Culture Techniques" was organized by Dr. Aveek Samanta, Asst. Prof. of Botany, Contai P K College, East Midnapore at DSC, Digha on February 20, 2024. About 30 students & teachers participated in this workshop.

### **Teachers' Training Programme, February 26 - 27, 2024:**

A "Teachers' Training Programme" was organized at Digha Science Centre for 25 Trainee Teachers on February 26 & 27, 2024 where interactive hands-on experiments with brief exposure to the fundamental principles of Physics, Geography, and Basic Astronomy & Mathematics were given to the participants. They fabricated different types of simple experimental setups on the said topics.

## **Observance of Important Days:**

01. Observance of Earth Day - April 22, 2023
02. Celebration of International Museum Day - May 18, 2023
03. Observance of World Environment Day - June 5, 2023
04. Observance of World Food Safety Day - June 7, 2023
05. Live Screening of the Launch of Chandryaan-3 - July 14, 2023
06. Observance of Moon Landing Day - July 20, 2023
07. Observance of World Nature Conservation Day - July 28, 2023
08. Chandryaan-3 - August 23, 2023
09. District Level Students Science Seminar - August 25, 2023
10. Closing Ceremony of Silver Jubilee Celebration - Aug. 31 - Sep. 1, 2023

11. Celebration of launch Aditya-L1 - September 02, 2023
12. District Level Science Drama Competition - September 12, 2023
13. Observance of Hindi Pakhwada - September 14 - 29, 2023
14. Special Campaign 3.0 - October 01-31, 2023
15. Annual Science Quiz Competition - October 11-13, 2023
16. Observance of Vigilance Awareness Week (VAW) - Oct. 30 - Nov. 05, 2023
17. Observance of International Science Centre & Science Museum Day - Nov. 10, 23
18. Observance of Children's Day - November 14, 2023
19. National Energy Conservation Day - December 14, 2023
20. National Mathematics Day - December 22, 2023
21. District Level Science Fair - December 28 - 30, 2023
22. National Science Day Celebration - February 28, 2024
23. Celebration of Pi Day - March 14, 2024
24. Observance of World Water Day - March 22, 2024

## **SECTION IV**

Visitor Statistics

Science Demonstration Lecture

Mobile Science Exhibition

Shows & Demonstrations

Other Shows

Creative Ability Centre / Vacation Science Camps / Training

Science Seminar

Science Fair

Exhibit Development for BITM & its units during the year 2022-23

List of Exhibits Developed



## Visitors to Museum / Centre:

	<b>BITM, Kolkata</b>	<b>SSC, Patna</b>	<b>DSC, Purulia</b>	<b>Bardham an Science Centre</b>	<b>NBSC, Siliguri</b>	<b>Digha Science Centre</b>
School Group	1225	1335	151	250	423	565
Students	77,839	76,199	10,488	23,120	31,855	31,675
Visitors in Spl. Prog.	32,245	47,328	40,565	24,376	39,437	56,474
General Visitor	99,159	2,33,876	1,37,131	1,36,768	2,24,851	4,39,065
In-house Visitor	2,09,243	3,57,403	1,88,184	1,84,264	2,96,143	5,27,214
Outreach Visitor including Visitors in MSE	3,91,010	6,74,963	2,01,332	55,368	83,315	17,617
Total Visitors	6,00,253	10,32,366	3,89,516	2,39,632	3,79,458	5,44,831
Visitor Since inauguration	1,37,23,468	1,30,33,574	97,11,360	52,90,739	55,39,423	81,24,525



## Science Demonstration Lecture:

<b>Museum / Centre</b>	<b>No. of Lectures held in Museum</b>	<b>No. of Students in Museum</b>	<b>No. of Lectures held outside</b>	<b>No. of Students outside</b>
BITM Kolkata	44	4574	123	46,691
SSC, Patna	42	4410	151	37,758
DSC, Purulia	31	4687	121	34,529
Bardhaman Sc. Centre	59	3658	40	3760
NBSC, Siliguri	38	1968	51	15628
Digha Sc. Centre	50	3640	13	7314



## Mobile Science Exhibition:

Museum / Centre	Theme of the Exhibition	No. of sites	No. of Exhib. days	No. of Visitors in Exhib.	No. of Film Shows	No. of Visitors in Film Shows	Km. Travelled
BITM Kolkata	Heat & Temperature, Mathematics Machines in Everyday Life	75	153	379388	92	27682	4301
SSC, Patna	Machines in Everyday Life, Food & Health, Popular Science	149	504	637079	64	37884	7258
DSC, Purulia	Food & Health, Mesurment	110	291	161653	110	38184	3791
Bardhaman Sc. Centre	Measurement, Aarth Ganga	41	55	51864	37	10781	1545
NBSC, Siliguri	Machines in Everyday Life	45	58	25679	52	10791	1758
Digha Sc. Centre	Chemistry & Life with Focus on Water	20	36	15753	-	-	1954



## Science Education Shows / Public Demonstrations:

	BITM Kolkata	SSC, Patna	DSC, Purulia	Bardham an Sc. Centre	NBSC, Siliguri	Digha Sc. Centre
<b>Digital Planetarium</b>						
No. of Shows	-	1368	-	-	1789	2763
Visitors	-	47880	-	-	51443	57959
<b>Taramandal</b>						
No. of Shows	412	-	996	607	68	290
Visitors	7414	-	11487	6972	1428	3641
<b>Sky Observation</b>						
No. of Programmes	47	41	50	57	63	62
Visitors	2515	3485	1765	2451	8110	1910
<b>Science Quiz</b>						
Contests	35	157	51	52	29	90
Participants	4372	10755	96	216	2442	1421
Visitors	1281	1190	1654	1664	510	1503
<b>Popular Lecture</b>						
No. of Lectures	20	11	13	13	18	16
Audience	5115	1485	1856	1456	2230	1021
<b>Science Shows: Science Magic &amp; Miracle / Super Cool Bodies / Surprising Chemical Reactions/ Fun Science / Egg-cellent / Fire-Y-Tale / Balls, Balloons &amp; Bubbles</b>						
No. of Shows	1058	563	542	393	806	624
Audience	113443	33780	8197	6290	36815	25071
<b>3D Shows</b>						
No. of Shows	2320	1891	998	1670	2118	3474
Audience	108691	66185	15307	22206	54282	85477

## Others Shows:

	No. of Programmes	No. of Audience
<b>BITM Kolkata:</b>		
Underground Coal Mine	3,318	90,829
ChromaKey Show in TV Studio	721	22,668
Show in Spark Theatre	453	21,880
Fun Mathematics Demonstration	118	4,511
<b>SSC, Patna:</b>		
Science on a Sphere	597	35820
<b>DSC, Purulia:</b>		
Show in Prehistoric Life Park	181	It is free programme to all visitors***



## Creative Ability Centre / Vacation Science Camps / Training:

	BITM, Kolkata	SSC Patna	DSC Purulia	Bardham an Sc. Centre	NBSC Siliguri	Digha Sc. Centre
<b>Creative Ability Centre</b>						
Projects Completed	249	-	104	15	14	193
No. of Students	1512	-	369	196	18	119
<b>Vacation Science Camps</b>						
No. of Camps	26	07	21	09	06	06
Projects Completed	104	71	71	09	456	53
<b>No. of Students</b>	557	120	269	96	114	64
<b>Teachers' Training Programme</b>						
No. of Programmes	03	02	02	01	02	01
No. of Teachers	15	112	50	28	28	25
No. of Teaching Aids Developed	15	384	10	14	20	09
<b>Computer Training Programme</b>						
No. of Programmes	-	-	-	04	-	-
No. of Trainees	-	-	-	82	-	-



## Science Seminar:

Boosting Immunity - The Need of the Hour: Prospects & Challenges

Museum / Centre	Date	Level	No. of Schools	No. of Participants	Audience
BITM Kolkata	29.08.2023	District	18	18	55
	08.09.2023	State	10	10	30
SSC, Patna	04.10.2023	State Level	18	18	148
DSC, Purulia	29.08.2023	District	26	26	225
Bardhaman Sc. Centre	18.08.2023	District	17	17	85
NBSC, Siliguri	29.08.2023	District	20	20	100
Digha Sc. Centre	25.08.2023	District	18	18	79



## Science Fair

Museum / Centre	Date	Level	No. of Schools	No. of Projects	No. of Participants	Visitors
BITM Kolkata	21/12/23-22/12/23	kolkata District	20	33	66	1732
BITM Kolkata	09/01/24-12/01/24	Zonal	101	110	280	5407
BITM Kolkata	29/01/24-30/01/24	SYSF District	54	54	108	-
BITM Kolkata	08/02/24-09/02/24	SYSF State	45	45	90	-
SSC, Patna	30/11/2023	District Level	35	92	92	525
DSC, Purulia	18/12/23-19/12/23	District	28	82	125	7952
Bardhaman Sc. Centre	03/01/24-05/01/24	District	35	35	70	600
NBSC, Siliguri	20/12/23-21/12/23	District	20	46	80	3730
Digha Sc. Centre	28/12/23-30/12/23	District	07	11	17	500



## Exhibit Development for BITM & its units during the year 2023-24

Particulars	BITM, Kolkata	SSC, Patna	NBSC, Siliguri	SC, Bardhaman	DSC, Purulia	DSC, Digha
Gallery Exhibits	111	39	09	01	-	-
Duplicate Exhibits	-	-	-	-	-	-
Park Exhibits	28	-	02	15	09	08
MSE Exhibits	-	-	-	-	-	-
Taramandal	-	-	-	-	-	-
Kits / Aids	105	36	11	26	-	-
Duplicate Kits / Aids	-	-	-	-	-	-
Temporary Exhibits	-	-	-	-	-	-
<b>Total</b>	<b>244</b>	<b>75</b>	<b>22</b>	<b>42</b>	<b>09</b>	<b>08</b>

### List of Exhibits Developed during 2023-24

	<b>BITM, Kolkata</b>	14	Telegraphy set (1 way) 4 components
	<b>Vintage Voyage Gallery</b>	15	Magnetic Recorder And Reproducer Swadesh Connect
1	Hughes Teleprinter	16	Manual Telephone Exchange
2	Keyboard Perforator	17	Rural Automatic Exchange Bell (1991-92)
3	Telepage Printer	18	Telephone Exchange Console
4	Tape Transmitter	19	Extension Switch
5	Baudot Distributor	20	Wall Hanging Telephone
6	Baudot Keyboard	21	Radio - 4 Nos. (Including Radio Superhet)
7	Morse Signalling Apparatus Used In Railway	22	Montwane Chicago Catcher Stand
8	Teletype Printer	23	Fire Alarm System (With Cranking System)
9	Teletype Writer	24	Bell's Electromagnetic Telephone (1876)
10	Baudot Receiver With Base	25	Wall Type C.B. Telephone With Detachable Earpiece (1910-20)
11	Edison's Cylindrical Recorder	26	Pedestal Type C.B. Telephone (1910)
12	Gramophone Birch	27	Wall Type Telephone With Receiver (1900)
13	Pathephone Gramophone	28	Wall Type Automatic Telephone With Detachable Earpiece

29	Rek-Okut Recording Machine	54	Telephone Magneto
30	Edison's Disc Recorder	55	Small Desk Type Speaker
31	Telegraph Recording Instrument (1875)	56	Horn Speaker- 2 Hypex
32	Morse Receiver And Inker	57	Letter Box
33	Horizontal Telegraph Relay (1880)	58	Ionosphere Recorder
34	Ericofon	59	Automatic Telephone (Made In Sweden)
35	Priyadarshini Donated By Indian Telephone Industries	60	Bell Box
36	Cable Underground (Sample)	61	Assorted Stamps For Communication
37	Modern Magneto Telephone (Made In India)	62	Morse Key
38	Desk Type Automatic Telephone (1930)	63	Gramophone
39	Desk Type Automatic Telephone	64	GEC Valve Based Radio
40	Desk Type Automatic Telephone (1920)	65	Bombay Telephone
41	Automatic Telephone	66	Railway Telephone
42	Desk Type CB Telephone (1938)	67	Loud Speaking Telephone(2)
43	Desk Type CB Telephone (1909)	68	Wall Hanging Telephone
44	Wall Type Magnetic Telephone With Handset (1890)	69	Telephone
45	Wall Type Magnetic Telephone With Handset (1890) Field Telephone Set	70	TeleReplica Of Bell's Liquid Transmitter of March 1876, Possibly Made By Bell Telephone Laboratories, US (1880-1958)
46	Bell's Box Telephone (1878)	71	Parcel Balance
47	Gallow's Frame First Telephone Invented By Alexander Graham Bell (1875)	72	Rabindranath Tagore Enclave
48	Railway Signalling Apparatus (Siemens And Halske )	73	Rabindranath Tagore Enclave
49	Desk Type Magnetic Telephone With Switch (1889)	74	Magneto Generator
50	Desk Type Magnetic Telephone With Switch (1905)	75	Hand Reciever (1838)
51	Desk Type Magnetic Telephone		
52	Wall Type Magnetic Telephone		
53	Telegraphy (2 way) Down-station (4 components)		
	<b>Transport Gallery</b>	5	Transport in the Himalayan Region
1	Model of palanquin with 4 mannequins	6	Transport in the Desert Region
2	Beginning of Transportation on wheels.	7	The 18th century Kolkata
3	Ancient chariots.	8	Water Transport
4	Transport in the Himalayan Region	9	Bicycles through ages

10	Bicycles	28	Rolls Royce Phantom – I (1926)
11	Multimedia	29	Advent of IC engine
12	Early system locomotive	30	Model of Fiat Tipo 103 (1925)
13	Rail Transport	31	Two wheelers
14	Kolkata Tramways	32	Automobile Transmission
15	Early attempts on Rail roads	33	Multimedia on Transmission in Automobile
16	Modern Rail Transport	34	Underwater Travel : The turtle with 1 mannequin
17	Vande Bharat – Symbol of India's Technological Progress	35	Ships & vessels
18	Engines that shaped our world	36	Transport of Materials
19	Famous Trains	37	Multimedia on different types of Material handling systems
20	Model of 2-4-2 Pannier Tank Locomotive (1933)	38	Transport in space
21	First train in Kolkata: An European Impression	39	Air Transport
22	First train in Kolkata	40	Multimedia on Automobile After the world war – II
23	Introducing passenger amenities	41	Visual seeker on super transport
24	Railways in India : Landmarks	42	Metro Railway
25	Railway in India		
26	Railway in India : Reminiscences (I)		
27	Railway in India : Reminiscences (II)		
	<b>SRC Bikaner Science Centre</b>	6	Winchester Bottle
1	Elliptical Speaking Tube		<b>Science Park Exhibit</b>
2	Value of Pie	1	Projective Geometry
3	Projective Geometry	2	Musical Tube
4	Musical Tube	3	Model of Aryabhata
5	Hole in a Palm	4	Model of Chandrayan
6	Archimedes Screw	5	Compact Exhibit- Anamorphosis
7	Laminar Water Corridor	6	Compact Exhibit - Crystal Defect,
8	Musical Tube	7	Scientist Bust with stand - 8 Nos.
	<b>Coal Mine Gallery</b>	8	Reflex Action
1	Portable Hydraulic Banding Machine	9	Conic Section
2	Suspension Convergence Indicator	10	Hyperboloid
3	Anchoring Testing Machine	11	Touch Concert - 4Nos.
4	Auto Warning Tell Tale Extensometer	12	Be at Centre - 5Nos.
5	Hydraulic Load Cell	13	Archimedes Screw

	<b>SSC, Patna</b>	4	Hyperboloid
	<b>Astronomy Gallery</b>	5	Laminar Water
1	Gravitational Lens		<b>DSC, Digha</b>
2	Retrograde Motion		<b>Science Park Exhibit</b>
3	Zodiac	1	Hyperboloid
4	James Webb Space Telescope	2	Conic Section
5	Big Bang	3	Archimedes Screw
6	Red Shift	4	Laminar Water Corridor
7	Weighing the Universe		<b>Open Gym Fitness Exhibits-</b>
8	What is Galaxy	1	Air Walker
9	Milky Way Galaxy	2	Hip & Waist Twister
10	Mars Rover Scale-down Model	3	Taichi Wheel
11	Virtual Reality Show	4	Arm & Pedal Bike
12	Asteroids & Comets		<b>DSC, Purulia</b>
13	Saturn Rings		<b>Science Park Exhibit</b>
14	Indigenous Astronomical instruments	1	Projective Geometry
15	Gravitational Lens	2	Touch Concert
16	Solar System	3	Laminar Water Corridor
17	How do Planets Move	4	Archimedes Screw
18	Saturn Ring	5	Reflex Action
19	Kupier's Belt	6	Laminar Water Corridor
20	Evolution of Telescope	7	Archimedes Screw
21	Columbus Capsule	8	Hyperboloid
22	International Space Station	9	Projective Geometry
23	Space vertex	10	Conic Section
	<b>Panel Exhibition on "Millets : A Super Food" – 14 nos.</b>		<b>DSC, Bardhaman</b>
	<b>Science Park Exhibit</b>		<b>Gallery</b>
1	Laminar Water Flow	1	Reflex Action
2	Archimedes Screw		<b>Science Park Exhibit</b>
	<b>NBSC, Siliguri</b>	1	Newton's Cradle
1	<b>Panel Exhibition – 'Millets: The Superfood?'</b>	2	Laminar Water Corridor
	<b>Science Park Exhibit</b>	3	Conic Section
1	Laminar Water Flow	4	Hyperboloid
2	Conic Section	5	Archimedes Screw
3	Laminar Water Corridor	6	Reflex Action

	<b>DSC, Bardhaman</b>		
7	Hyperboloid		
8	Conic Section		
9	Touch Concert		
10	Be at Centre		
11	Laminar Flow		
12	Archimedes Screw		
13	Double Pendulum-2 Nos.		

## **SECTION V**

Staff Strength

Personnel

Retirement / Resignation / Death

Appointment

Promotions

MACP

Transfer

Expenditure

**Staff Strength:**

Name of the Museum/ Centre	Scientific	Technical	Administrative	Total
BITM, Kolkata	7	54	41	102
SSC, Patna	2	11	8	21
DSC, Digha	1	9	4	14
DSC, Purulia	0	6	4	10
NBSC, Siliguri	1	8	5	14
SC, Burdwan	0	8	4	12
<b>TOTAL</b>				<b>173</b>

**Retirement/ Resignation/ Death:**

Museum/ Centre (1)	Name Shri/ Smt.(2)	Designation at the time of retirement/ Death/ Completion (3)	Date of retirement/ Release/ Death/ Completion (4)	Remarks (5)
BITM, Kolkata	Biplab Kr. Seal	Technician 'F'	31.05.2023	Retirement
SC, Bardhaman	Mahadeb Panja	Driver Spl. Grade	30.06.2023	Retirement
BITM, Kolkata	K. K. Panja	Technician 'F'	31.12.2023	Retirement
BITM, Kolkata	Kanishka Chakraborty	Education Officer 'D'	31.12.2023	Retirement
BITM, Kolkata	T. K. Sengupta	Education Officer 'D'	29.02.2024	Retirement
BITM, Kolkata	Prem Lal	MTS	29.02.2024	Retirement
BITM, Kolkata	Sumit Majumder	Technician 'G'	31.03.2024	Retirement

**Appointment:**

Museum/Centre	Name Shri/ Smt.	Designation	Initial Appointment
NBSC, Siliguri	Basudeo Prajapati	Technician 'A'	06.02.2023
BITM, Kolkata	Gopal Basak	Education Assistant 'A'	12.04.2023
BITM, Kolkata	Babai Mondal	Technician 'A'	01.06.2023
SSC, Patna	Suraj Kumar	O. A. Gr. III	20.07.2023
DSC, Purulia	Sk. Motibul Ali	Technician 'A'	19.09.2023
NBSC, Siliguri	Surajit Kumar Patra	Technician 'A'	22.09.2023
BITM, Kolkata	Arjun MA	Curator 'B'	01.11.2023

## Transfer:

Museum/Centre	Name Shri/ Smt.	Transfer from	Transfer to	Date of Transfer/ Resignation
BITM, Kolkata	Rajib Nath	BITM, Kolkata	NCSM Hqrs.	16.06.2023 (AN)
BITM, Kolkata	Saptadeep Bandyopadhyay	BITM, Kolkata	SSC, Patna	17.06.2023 (AN)
BITM, Kolkata	Jayati Mukhopadhyay	BITM, Kolkata	NSC, Delhi	23.06.2023 (AN)
BITM, Kolkata	Amit Kumar Mondal	BITM, Kolkata	Science City, Kolkata	31.12.2023 (AN)
BITM, Kolkata	Sandip Dikshit	BITM, Kolkata	NCSM Hqrs.	12.01.2024 (AN)
SSC, Patna	Amitabh	SSC, Patna	NCSM Hqrs.	28.03.2024 (AN)
DSC, Digha	Niranjan Gupta	DSC, Digha	NCSM Hqrs.	28.03.2024 (AN)
SSC, Patna	Yogesh Tamang	SSC, Patna	NEZ, Guwahati	28.03.2024 (AN)
NBSC, Siliguri	B. B. Roy	NBSC, Siliguri	NEZ, Guwahati	28.03.2024 (AN)
NBSC, Siliguri	Basudeo Prajapati	NBSC, Siliguri	NEZ, Guwahati	28.03.2024 (AN)
BITM, Kolkata	Shyamal Saha	BITM, Kolkata	NEZ, Guwahati	28.03.2024 (AN)
BITM, Kolkata	Ajay Biswas	BITM, Kolkata	NSC, Mumbai	31.03.2024 (AN)

## Promotion:

Museum/ Centre (1)	Name Shri/ Smt.(2)	Designation before promotion	Designation after promotion/ upgradation	Date of promotion/ up gradation
SSC, Patna	Dilip Kr. Bhagat	Technician 'A'	Technician 'B'	20.05.2023
BITM, Kolkata	Sajid Chakdar	Technician 'A'	Technician 'B'	20.05.2023
BITM, Kolkata	Debashree Nandi	O. A. Gr. II	O.A. Gr. I	27.06.2023
BITM, Kolkata	Sumit Biswas	Tech. Assistant 'A'	Tech. Assistant 'B'	06.07.2023
SSC, Patna	Md. Aftab Hussain	Education Assistant 'A'	Education Assistant 'B'	27.08.2023
BITM, Kolkata	Jhantu Sanbui	Technician 'A'	Technician 'B'	04.09.2023
SSC, Patna	Hari Shankar Ray	Driver Gr. II	Driver Gr. I	09.10.2023
BITM, Kolkata	Trinath Mahato	Exh. Assistant 'A'	Exh. Assistant 'B'	19.11.2023
NBSC, Siliguri	Ujjal Das	Technician 'B'	Technician 'C'	01.02.2024
DSC, Digha	S. N. Achari	Technician 'E'	Technician 'F'	22.02.2024
SC, Bardhaman	Nikhiles Biswas	Edu. Officer 'C'	Edu. Officer 'D'	14.03.2024
NBSC, Siliguri	Biswajit Kundu	Edu. Officer 'C'	Edu. Officer 'D'	14.03.2024
BITM, Kolkata	Partha Parbat	Tech. Officer 'C'	Tech. Officer 'D'	14.03.2024
BITM, Kolkata	Tarun Kr. Das	Tech. Officer 'C'	Tech. Officer 'D'	14.03.2024

**MACP:**

Museum/Centre	Name & Designation Shri/ Smt.	Date of Up gradation
	NIL	

**Expenditure (2023-24) under GIA / Salaries & General (Rs. in Lakhs)**

Particulars	BITM Kolkata	SSC. Patna	D.S.C. Purulia	S.C. Bardhaman	Digha Science Centre	N.BS.C Siliguri	Total
GIA Salaries	1404.41	170.67	77.77	116.54	117.13	130.36	2016.87
GIA General	494.52	161.54	82.42	81.94	126.55	120.56	1067.53
Gross Exp.	1898.93	332.21	160.19	198.48	243.68	250.92	3084.41
Receipt	152.19	144.43	35.10	42.65	182.26	102.46	659.09
Net Expenditure (A - B)	1746.74	187.78	125.09	155.83	61.42	148.46	2425.32
GIA-CCA Gross Expenditure	185.53	22.00	15.83	27.61	52.61	26.41	329.99

**Total Expenditure (Gross) GIA -- Salaries + General + CCA (Rs. in Lakhs)**

Particulars	BITM Kolkata	SSC. Patna	D.S.C. Purulia	S.C. Bardhaman	Digha Science Centre	N.BS.C Siliguri	Total
Gross Expenditure	2084.46	354.21	176.02	226.09	296.29	277.33	3414.40

**Expenditure (2022-23) Innovation Hub (Rs. in Lakhs)**

Particulars	BITM Kolkata	SSC. Patna	D.S.C. Purulia	S.C. Bardhaman	Digha Science Centre	N.BS.C Siliguri	Total
Gross Expenditure	0	0	1.21	0	1.25	1.49	3.95

## **SECTION VI**

### **Committee Members of BITM & Satellite Units**

**Executive Committee of BITM**

**Planning & Programming Committee of BITM**

**Local Advisory Committee of SSC, Patna**

**Local Advisory Committee of NBSC, Siliguri**

**Local Advisory Committee of Bardhaman Science Centre**

**Local Advisory Committee of DSC, Purulia**

**Local Advisory Committee of Digha Science Centre**

## Executive Committee of BITM, Kolkata

<b>1. Dr. Abhijit Chakrabarti</b> Former Vice Chancellor Jadavpur University CE-58, Sector-I, 1st Floor Bidhannagar, Salt Lake City, Kolkata-700 064	Chairman	<b>7. The Secretary</b> Ex-officio Member Department Of Science & Technology Government Of West Bengal Vigyan Chetana Bhavan, 26/B, Block-DD, Sector-I, Salt Lake City, Bidhannagar, Kolkata - 700 064	
<b>2. Prof. Rajib Bandyopadhyay</b> Dept. Of Instrumentation And Electronics Engineering, Jadavpur University B-73-80, Plot No.8, Salt Lake Bypass, LB Block, Sector III, Salt Lake City Kolkata -700 098	Member	<b>8. Ms. Ranjana Chopra</b> Ex-officio Member Additional Secretary & Financial Advisor Ministry of Culture, Govt. of India Room No. 318, 'C' Wing, Third Floor Shastri Bhavan, New Delhi - 110 001	
<b>3. Dr. Debasish Bandyopadhyay</b> Senior Principal Scientist & Head, Business Development & Publication Division (BDPD) CSIR-Central Glass & Ceramic Research Inst. (CGCRI) 196, Raja S. C. Mullick Road Kolkata - 700 032	Member	<b>9. Shri A. D. Choudhury</b> Ex-officio Member Director General NCSM National Council of Science Museums 33,Block-GN, Sector-V, Bidhan Nagar, Salt Lake City Kolkata - 700 091	
<b>4. Dr. Jayanta Sengupta</b> Director, Alipore Museum 17, Judges Court Road, Alipore Kolkata - 700 027	Member	<b>10. Shri Subhabrata Chaudhuri</b> Ex-officio Member Director Birla Industrial & Technological Museum, 19a, Gurusaday Road, Kolkata – 700 019	
<b>5. Mrs. Richa Agarwal</b> CEO, Emami Art 777, Anandapur, Adarsha Nagar Near Fortis Hospital, Kolkata – 700 107	Member	<b>11. Shri Soumen Ghosh</b> Ex-officio Member Curator Birla Industrial and Technological Museum 19A, Gurusaday Road, Kolkata – 700 019	
<b>6. The Secretary</b> Ex-Officio Member Department Of School Education Government Of West Bengal Bikash Bhavan, 5th & 6th floor DF Block, Sector 1, Salt Lake City Kolkata - 700 091		<b>12. Shri Subhashis Paul</b> Non-Member Secretary Controller Of Administration Birla Industrial & Technological Museum 19a, Gurusaday Road, Kolkata – 700 019.	

## Planning & Programming Committee of BITM

- 1. Prof. Rajib Bandyopadhyay** Chairman  
Dept. of Instrumentation & Electronics  
Engineering, Jadavpur University  
B-73-80, Plot No.8, Salt Lake Bypass LB  
Block, Sector III, Salt Lake City Kolkata - 700 098
- 2. Deputy Commissioner** Member  
Kendriya Vidyalaya Sangathan  
Regional Office, Kolkata E. B. Block, Laboni,  
Sector - 1 Salt Lake City, Kolkata - 700 064
- 3. Dr. Titas Nandi** Member  
Dept. of Mechanical Engineering  
Jadavpur University  
Kolkata – 700 032
- 4. Dr. Punarbasu Chaudhuri** Member  
Assistant Professor  
Dept. of Environmental Science, UC  
Room No. 856, 7th Floor, Ballygunge  
Circular Road, Kolkata -700 019
- 5. District Inspector of Schools** Member  
(Secondary Education), Kolkata  
27A, Bose Pukur Road  
Shiksha Bhaban, Kolkata – 700 042
- 6. Principal** Member  
Kendriya Vidyalaya  
Ballygunge, Kolkata – 700 019
- 7. Principal** Member  
Mahadevi Birla World Academy  
17A, Darga Road, Kolkata - 700 017
- 8. Mrs. Dipa Chakraborty** Member  
Headmistress  
Smt. Jahar Nandi Vidyapith 20 & 22, Tarak  
Dutta Road & 9, Cornel Biswas Road,  
Kolkata – 700 019
- 9. Director General or his nominee** Ex-officio Member  
National Council of Science Museums  
33, Block-GN, Sector-V Bidhan Nagar,  
Salt Lake City, Kolkata - 700 091
- 10. Director Birla Industrial & Technological Museum** Ex-officio Member  
19A, Gurusaday Road  
Kolkata – 700 019
- 11. Shri Amitabh** Ex-officio Member  
Project Coordinator  
Shrikrishna Science Centre West Gandhi  
Maidan Chajju Bagh, Patna - 800 001
- 12. Shri Soumen Ghosh** Member Secretary  
Curator  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata-700 019

## Building Committee of BITM

- 1. Shri S. Roy Chowdhury** Chairman  
Former Chief Architect, CPWD  
83, K. P. Roy Lane, Near Tollygunj Phari  
(R.S.V. Hospital), Kolkata – 700 033
- 2. Shri Biswajit Bose** Member  
Retd. Chief Architect (ER), CPWD  
Beledanga Road, Kethopole  
P.O. Sibrampur, Kolkata - 700 141
- 3. Shri Anup Kumar Ghosh** Member  
Director General of Operation KMDA (Retd.)  
Flat No. A-2, 2nd Floor, Tulip Apartment,  
282, Parnasree Pally, Kolkata - 700 060
- 4. Prof. Arup Guha Niyogi** Member  
Dept. of Civil Engineering  
Jadavpur University, Kolkata - 700 032
- 5. Dr. Bhaskar Sengupta** Member  
Chief University Engineer  
Rabindra Bharati University Emerald Bower  
Campus, 56A, B. T. Road, Kolkata - 700 050
- 6. Director** Ex-Officio Member  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 7. Shri Saikat Sikdar** Ex-Officio Member  
Superintending Engineer  
National Council of Science Museums  
33, Block-GN, Sector-V, Bidhan Nagar,  
Salt Lake City, Kolkata – 700 091
- 8. Shri Subhashis Paul** Ex-Officio Member  
Controller of Administration  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 9. Shri Sunil Dutt Sharma** Ex-Officio Member  
Dy. Controller of F&A  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 10. Shri Arabinda Kundu** Member Secretary  
Technical Officer (Civil)  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 11. Invitee Members**  
To be invited based on requirements for  
discussing specific Building projects of NCSM

### Local Advisory Committee of Shrikrishna Science Centre, Patna

- 1. Prof. Rasbihari Prasad Singh** Chairman  
Former Vice Chancellor, Patna University  
101, Rewati Apartment, Road No. 2, Kazipur,  
Patna, Pin - 800 004
- 2. Ms. Jyoti Parihar** Member  
Director, Kilkari Bal Bhawan  
Saidpur, Patna, Pin - 800 004
- 3. ADM Law and Order** Member  
Patna  
Patna Collectorate, Patna - 800 001
- 4. Ms. Moumita Ghosh** Member  
Curator, Bihar Museum,  
Baily Road, Patna - 800 001
- 5. Shri Naveen Kr. Nischal** Member  
Dept. of Physics,  
IIT Patna, Bihar - 801 103
- 6. Dr. Shayesta Bedar** Member  
Director  
Khuda Baksh Oriental Public Library, Patna  
Ashok Rajpath, Patna, Pin - 800 004
- 7. Dr. Vivekanand Pandey** Member  
Pro Vice Chancellor,  
Amity University,  
DPS More, Danapur, Patna- 801 503
- 8. Dr. Kumari Nimisha** Member  
Asst. Professor, Dept. of Chemistry  
Rajkiya Mahila Mahavidyalaya  
Patna- 800 007
- 9. Prof. (Retd.) Arun Kumar** Member  
Chairman Science for Society, Bihar  
C/o Chemistry Department (New Building),  
Science College, Patna University, Patna- 800 005
- 10. Shri B. Vinod** Member  
Principal, Delhi Public School,  
Vill. Chandmari, Danapur, Patna - 801 503
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum,  
19A, Gurusaday Road Kolkata - 700 019
- 12. Project Coordinator** Member Secretary  
Shrikrishna Science Centre,  
Chajju Bagh, West Gandhi Maidan  
Patna-800 001

### Local Advisory Committee of North Bengal Science Centre, Siliguri

- 1. Vice Chancellor** Chairman  
University of North Bengal  
P.O. NBU, Rajarammohunpur, Darjeeling,  
Pin - 734 013
- 2. Prof. (Dr.) Subhas Ch. Roy** Member  
Professor, Dept. of Botany & Dean Faculty Council  
for P. G. Studies in Science University of North  
Bengal, P.O. NBU, Rajarammohunpur,  
Darjeeling, Pin- 734 013
- 3. AEO & ADM** Member  
Siliguri Mahakuma Parishad  
Bhutia Market, Hakim Para, Siliguri, Pin- 734 001
- 4. CEO** Member  
Siliguri Jalpaiguri Dev. Authority Tenzing Norgay  
Road, Siliguri Pradhannagar, Ward 1, Patiram  
Jote, Pin- 734 001
- 5. Prof. (Dr.) Mithun Chakraborty** Member  
Principal, Siliguri Institute of Technology  
SIT Campus, Salbari Hill Cart Road, Sukna,  
Siliguri Pin- 734 009
- 6. Director** Member  
Darjeeling Himalayan Railway (A UNESCO  
World Heritage Site) Elysia Place, Kurseong,  
Dist. Darjeeling, Pin- 734 203
- 7. District Education Officer** Member  
SSM & RMSA, Siliguri  
Educational District 3rd Floor, Siliguri Mahakuma  
Parishad Bhutia Market, Hakim Para, Pin- 734 001
- 8. Dr. Mayukh Sarker** Member  
Principal-in-charge  
Acharya Prafulla Chandra Roy Govt. College  
Himachal Bihar, Matigara, Siliguri- 734 010
- 9. Smt. Atyuha Bagchi** Member  
Headmistress  
Siliguri Girls' High School, Ashutosh Mukherjee  
Road, College Para, Siliguri, Pin- 734 001
- 10. Asstt. Director of Information,** Member  
Office of Asstt. Director of Information, Dept. of  
I&CA Govt. of West Bengal Mainak Tourist Lodge  
Complex Hill Cart Road, Pradhan Nagar,  
Pin. 734 001
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum,  
19A, Gurusaday Road Kolkata - 700 019
- 12. Project Coordinator** Member Secretary  
North Bengal Science Centre,  
P.O. Matigara, Siliguri - 734 010

### Local Advisory Committee of Bardhaman Science Centre

- 1. District Magistrate** Chairperson  
Court Compound,  
P.O & Dist. Purba Bardhaman Pin- 713 101
- 2. Shri Utpal Samui** Member  
Principal  
M.B.C. Institute of Engineering & Technology  
Sadhanpur, Purba Bardhaman Pin- 713 101
- 3. Dr. Naba Kumar Mondal,** Member  
Head & Associate Professor, Dept. of  
Environmental Science, University of Burdwan,  
Golapbag, P.O. Rajbati, Golapbag Pin- 713 104
- 4. District Inspector of School,** Member  
(Secondary Education)  
Post- Purba Bardhaman, Pin- 713 101
- 5. Shri Pramad Kumar Swain** Member  
Senior General Manager, The Supreme Industries  
Ltd. E.P.I.P, P.O- Banksopa, Dist- Paschim  
Bardhaman Durgapur-12
- 6. District Education Officer** Member  
Sarva Siksha Mission  
New Administrative Building  
P.O & Dist. Purba Bardhaman Pin- 713 101
- 7. District Youth Officer** Member  
Purba Bardhaman  
Postal Co-operative Building  
1st floor, P.O & Dist. Purba Bardhaman, Pin- 713 101
- 8. Smt. Rama Bandyopadhyay** Member  
Headmistress  
Rathtala Monohar Das Balika Vidyalaya, P.O.  
Kanchannagar, Dist. Purba Bardhaman, Pin-713 102
- 9. Shri Soumen Konar** Member  
Headmaster  
Krishnapur High School Post- Rajbati, Dist.  
Purba Bardhaman, Pin- 713 104
- 10. Dr. Anindya Bose,** Member  
Senior Scientific Officer, Dept. of Physics,  
The University of Burdwan,  
Rajbati, Purba Bardhaman, Pin. 713 104
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum, 19A,  
Gurusaday Road, Kolkata – 700 019
- 12. District Science Officer** Member Secretary  
Bardhaman Science Centre,  
Ramna Maidan, Baburbag, P.O. Rajbati,  
Purba Bardhaman, Pin - 713 104

### Local Advisory Committee of District Science Centre, Purulia

- 1. Vice Chancellor** Chairperson  
Sidho Kanho Birsha University  
Purulia, Pin- 723 104
- 2. Secretary** Member  
Ramakrishna Mission Vidyapith  
Vivekananda Nagar, Purulia  
Pin- 723 147
- 3. Smt. Krishna Saha** Member  
Govt. Girls' High School  
Ranchi Road, Purulia, Pin. 723 101
- 4. District Project Officer** Member  
Sarva Siksha Mission  
Zilla Parishad Bhavan  
5th Floor, Purulia, Pin- 723 101
- 5. Dr. Santanu Chattopadhyay** Member  
Principal, J. K. College,  
Purulia, Pin- 723 101
- 6. Dr. Bibek Chakraborty** Member  
Principal, Rama Krishna Mahato Govt.  
Engineering College, Vill. Agharpur, P.O.  
Amamoti P.S. Joypur, Pin- 723 103
- 7. Dr. Subrata Raha** Member  
Head, Dept. of Botany  
Sidho Kanho Birsha University  
Purulia, Pin- 723 104
- 8. Dr. (Mrs.) Indrani Deb** Member  
Principal,  
Nistarini College  
Desh Bandhu Road, Purulia – 723 101
- 9. District Inspector of School (H.S.)** Member  
Zilla Siksha Bhavan (Hill View Ground),  
P.O. Dulmi Nadiha, Purulia, Pin- 723 101
- 10. District Youth Officer** Member  
District Youth Office  
Ranchi Road, Purulia  
Pin- 723 101
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum, 19A,  
Gurusaday Road, Kolkata – 700 019
- 12. District Science Officer** Member Secretary  
District Science Centre  
North Lake Road, Purulia- 723 101

## Local Advisory Committee of Digha Science Centre

<b>1. District Magistrate &amp; District Collector</b> Purba Medinipur Tamluk, Midnapur (E) Pin- 721 636	Chairman	<b>7. Superintendent</b> Digha State General Hospital Digha, Purba Medinipur, Pin- 721 463	Member
<b>2. Dr. Amit Kr. Dey</b> <b>Principal</b> Prabhat Kumar College Contai, Purba Medinipur, Pin- 721 401	Member	<b>8. Shri Samarendra Nath Das</b> Principal, Contai Public School Contai, Purba Medinipur, Pin- 721 401	Member
<b>3. Block Development Officer</b> Ramnagar - I, Purba Medinipur, Pin- 721 441	Member	<b>9. Shri Subhendu Karan</b> Headmaster Digha Bidyabhawan, Digha - Contai Rd, Alankarpur , West Bengal- 721 441	Member
<b>4. Joint Director &amp; Officer- in-charge</b> Marine Aquarium, Zoological Survey of India, Digha, Pin- 721 101	Member	<b>10. Executive Officer</b> Digha Shankarpur Development Authority Digha – 721 428, Purba Medinipur	Member
<b>5. District Inspector of School, (Secondary),</b> Contai, Purba Medinipur, Pin- 721 401	Member	<b>11. Director</b> Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata - 700 019	Ex-officio Member
<b>6. Sub-Divisional Officer</b> Contai, Purba Medinipur Pin- 721 401	Member	<b>12. Project Coordinator</b> Digha Science Centre, Foreshore Road, New Digha Purba Medinipur, Pin- 721 463	Member Secretary

# SCIENCE CENTRES UNDER NCSM

National Council of Science Museums



- East Zone
- CRTL Zone
- North Zone
- West Zone
- South Zone
- North East Zone
- Science City



Birla Industrial & Technological Museum, Kolkata



## East Zone

1. Birla Industrial & Technological Museum, Kolkata
2. Shri Krishna Science Centre, Patna
3. North Bengal Science Centre, Siliguri
4. District Science Centre, Bardhaman
5. District Science Centre, Purulia
6. Digha Science Centre, Digha

## CRTL Zone

7. Central Research and Training Laboratory, Kolkata
8. Regional Science Centre, Bhubaneswar
9. Dhenkanal Science Centre, Dhenkanal and Kapilas Science Park

## North Zone

10. National Science Centre, Delhi
11. Regional Science City, Lucknow
12. Kurukshetra Panorama and Science centre, Kurukshetra
13. Palampur Science Centre, Palampur

## West Zone

14. Nehru Science Centre, Mumbai
15. Raman Science Centre & Planetarium, Nagpur
16. Regional Science Centre, Bhopal
17. Goa Science Centre, Panjim
18. District Science Centre, Dharampur

## South Zone

19. Visvesvaraya Industrial & Technological Museum, Bangalore
20. Regional Science Centre & Planetarium, Calicut
21. Regional Science Centre, Tirupati
22. District Science Centre, Gulbarga
23. District Science Centre, Tirunelveli

## North East Zone

24. National Science Centre, Guwahati

## Science City

25. Science City, Kolkata

**Birla Industrial & Technological Museum**

A Unit of National Council of Science Museums

Ministry of Culture, Government of India

19A, Gurusaday Road, Kolkata – 700019, Ph. 9477345290/1/2