



ACTIVITY REPORT

2021 - 2022

**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 V S Ramachandran

Director

Birla Industrial & Technological Museum

Birla Industrial & Technological Museum

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

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Facebook : www.facebook.com/bitmkolkata

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Message

The 21st century will likely be remembered in two halves: the time before SARS-CoV-2 and the time after - with everyone having a COVID-19 story to tell. Very early on it became clear that the COVID-19 pandemic was not just a challenge for scientists and medical professionals. Almost a year into the coronavirus's rampage, there's no doubt about the long-term impact that SARS-CoV-2 will continue to have on every facet of human life - from healthcare to education, social interaction, businesses and environmental concerns - including science communication and popularization avenues like our's. And yet, we kept rising to the occasion - together.

We kept experimenting and the 'Fun with Dry Ice' Show at North Bengal Science Centre, Siliguri was a huge hit. We kept innovating and the 'Giant Magic Water Tap' outdoor exhibit at District Science Centre, Purulia invited visitors to explore. We kept developing and 'Ocean-The Blue World' Gallery at Shrikrishna Science Centre, Patna kept shaping up. We kept communicating and the BITM, Kolkata's COVID-19 Vaccine Awareness Tableau spread the message of the novel shots. Bardhaman Science Centre, Digha Science Centre and National Science Camp along with all our Centres and Museum celebrated India's scientific acumen with panel exhibition '75 Years of Independence - India's Achievements in Science & Technology'. Online interactives, offline sessions, collaborative programmes, commemorative events - we kept making Science fun for all.

The question of how the pandemic plays out is at least 50 percent social and political. The other 50 percent will probably come from science. The past months of discovery and innovation stand as testament to the dedication of scientists. This legacy will remain. So will the persistence of Team BITM and the myriad modes of their Science Communicators.



Shri V S Ramachandran
Director, BITM

SECTION I

General Information



General Information

Birla Industrial & Technological Museum

- I. Name of Head of Museum : **Shri V. S. Ramachandran, 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.50.00 per head
- ii. 25 or more Visitors in a group - Rs.40.00 per head
- iii. Students in Groups - 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. 5.00 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. 30.00 per head
- ii. 25 or more Visitors in a group - Rs. 25.00 per head
- iii. School Group - Rs. 20.00 per head,
- iv. Govt. School Students in Group - Rs. 15.00 per head

e) Science Show

- i. General Visitors & Students - 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. 75.00 per head
- ii. 25 or more Visitors in a group : - Rs. 65.00 per head
- iii. School Group - Rs. 45.00 per head,
- iv. Govt. School Students in Group - Rs. 30.00 per head

Srikrishna 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. 30.00 per head
ii. 20 or more Visitors in a group - Rs. 15.00 per head
iii. Students in Groups - Rs. 10.00 per head
iv. Govt. School Students in Group - Rs. 5.00 per head

b) Taramandal Show

- i. General Visitors & Students in group - Rs. 10.00 per head
ii. Govt. School Students in Group - Rs. 5.00 per head
i. General Visitors & 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. 30.00 per head
ii. 25 or more Visitors in a group - Rs. 15.00 per head
iii. School 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. Student in group - 15.00 per head
iii. Govt. Student in group - 5.00 per head

e) Science on a Sphere Show

- i. General visitor - 25.00 per head
ii. Student 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 Dhruvajyoti 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. 15.00 per head
ii. Students in Groups - Rs. 10.00 per head
iii. Govt. School Students in Group - Rs. 5.00 per head

b) Taramandal Show

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

c) Science Show

- I) General Visitors & Students - 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. 35.00

f) Gold Museum Tour Package for General (Entry & 3D show) - Rs. 25.00

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: sciencecentrebn@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. 20.00 per head
ii. 25 or more in a Group : Rs. 15.00 per head
iii. Organised School 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. 25.00 per head
ii) 25 or more in a group - Rs. 20 per head
ii. 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, nbcsiliguri1997@gmail.com
v. Website www.nbcsiliguri.org vii. Twitter: twitter.com/nbcsiliguri1
viii. Youtube: www.youtube.com/channel/UCjwgmxzRCFAFBVrwHVUEF1Q
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. 25.00 per head
ii. 25 or more Visitors in a group - Rs. 20.00 per head
iii. Students in Groups - Rs. 10.00 per head
iv. Govt. School Students in Group - Rs. 5.00 per head

b) Digital Planetarium

- i. General Visitors - Rs. 25.00 per head
ii. 25 or more in a group - Rs. 20.00 per head
iii. Students in Groups - 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 20.00 per head
ii. 25 or more Visitors in a group - Rs. 15.00 per head
iii. School 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 : 03220 266360 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.25.00 per head
- ii. 25 or more Visitors in a group - Rs.20.00 per head
- iii. Students in Groups - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

b) 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

c) 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

d) 3D Show

- i. General Visitors- Rs 20.00 per head
- ii. 25 or more Visitors in a group - Rs. 15.00 per head
- iii. School 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.25.00 per head
- ii. 25 or more Visitors in a group – Rs. 20.00 per head
- iii. Students in groups – 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	65
	● Motive Power Hall – I	181	1962 & 2003	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
	● Electricity	170	1984 & 2015	53
● World in Darkness	95	2009	19	
● Digital Adventure	230	2019	17	
	Innovation Hub	196	23 August 2013	–
	Biotech Lab	210	2 May 2017	–
Shrikrishna Science Centre, Patna	● Fun Science	400	2008 & 2016	63
	● Mirror Image & 3D	462	2010 & 2013	53
	● Evolution	400	1996	67
	● Ocean Gallery, Hall of Activity & Mirror Section	260	1978	71
	● S. K. Singh Gallery	50	1978	20
	● Children's Gallery	100	2018	12
	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	28
	● Reflection	247	2010	30
	● Fun Science	247	2014	32
	Digital Planetarium	50	–	–
	Innovation Hub	265	16 February 2018	–

Museum/ Centre	Galleries/ Innovation / Hub Biotech Lab	Floor Area (Sq. Mtr)	Year of Inauguration	No. of Exhibits
North Bengal Science Centre, Siliguri	● Fun Science	380	2010	37
	● Popular Science	380	1997	19
	● Life Science & Children's Corner	120	1997	12
	● Nature Interpretation	400	2001	17
	● Light, Mirrors & Images	250	2017	32
	Digital Planetarium	50	-	-
	Innovation Hub	240.25	16 February 2018	-



Science Park

Museum/Centre	Area	No. of Exhibits	Year of Inauguration
SSC, Patna	1 acre	48	1979
DSC, Purulia	1 acre	41	1977
Bardhaman Sc. Centre	3 acre	46	1992
NBSC, Siliguri	4.6 acre	32	1997
Digha Sc. Centre	1.7 acre	31	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	Fun Science Measurement	BITM, Kolkata	2013	24
		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	Water – Daily Life Chemistry	Science City	2019	20

Library Holding

Museum/Centre	Items	Total holding as on 01.04.2021	Acquired during the year	Written off during the year	Total holding as on 31.03.2022
Birla Industrial & Technological Museum	Books	16581	-	-	16581
	Brochure	3024	08	-	30232
	Journals	8824	38	-	8862
	Films/Cassettes	919	-	-	919
	CDs	725	-	-	725
Shrikrishna Science Centre, Patna	Books	2355	-	-	2355
	Journals	1470	-	-	1470
District Science Centre, Purulia	Books	1154	-	-	1154
	Films	43	-	-	43
	Cassettes	17	-	-	17
	Cds	58	-	-	58
Bardhaman Science Centre	Books	241	8	-	249
	Journals	315	-	-	315
	CDs	27	-	-	27
	Films	21	-	-	21
	Video Cassette	02	-	-	02
North Bengal Science Centre	Books	379	12	-	391
	Films	05	-	-	05
	Cds	15	-	-	15
Digha Science Centre	Books	395	-	-	395
	Cds	27	-	-	27

SECTION III

Unit-wise Activities at a Glance

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 Conducted

Observance of Important Days

Birla Industrial & Technological Museum

New Facilities:

Special Exhibition:

Tableau on Vaccine awareness and COVID Protocols: On the occasion of the World Science Day on 10 November 2021, Shri Firhad Hakim, Hon'ble Transport Minister, Govt of West Bengal flagged off a Tableau on Vaccine awareness and COVID Protocols from BITM. The said Tableau ran on the roads of Kolkata from 10 November (World Science Day) to 14 November (Children's Day).

Exhibition '75 Years of Indian Independence – Achievements in Science & Technology'
BITM inaugurated a 31 panel exhibition entitled '75 Years of Indian Independence – Achievements in Science & Technology' on 23 February 2022 at BITM. Prof. Sumanta Bose, Director, Netaji Bhawan, Kolkata was the Chief Guest and inaugurate the exhibition. The exhibition continued till 22 March 2022

Special Events:

International Museum Day:

On the occasion of International Museum Day on 18 May 2021 an online Lecture on 'The Future of Museums: Recover and Reimagine' by Dr. Jayanta Sthanapati, Former Deputy Director-General, National Council of Science Museums was organized. 82 persons participated online through www.bitm.gov.in/museum-day-2021.

National Technology Day:

BITM organized an Online Painting Competition on 'Science & Technology in India' and an Online Written Quiz Contest on 'Development of Science & Technology in India'. Entries received for Painting – 1020 and for Quiz – 506 students.

Anti-Terrorism Day:

Staff members of BITM took Anti-Terrorism Day pledge on 21 May 2021 from their respective home.

Moon Landing Day:

BITM organized 'Moon Landing Day' on 20 July, 2021 with online Demonstration with models on "Miraculous Moon" and Quiz on 'Moon Missions'. There were 7681 viewers for the above programme.

Pi Approximation Day:

Pi Approximation Day was celebrated with an online quiz 'Why π ?' through Google sheet. 569 students participated.

Azadi Ka Amrit Mahotsav Quiz:

Centre Level Online Quiz on 'Scientific Achievement of India in the past 75 Years' was held on 15 August, 2021 for students of class VIII to X from Kolkata, 24 Parganas (North), Hooghly, Nadia. 344 students took part. Adrita Mullick from Ashok Hall Girls Higher Secondary School, Kolkata was the winner.

Birth Anniversary of APC Ray:

The 160th Birth Anniversary of Acharya Prafulla Chandra Ray was celebrated on 2nd August 2021 with Garlanding of the half Bust statue of the Acharya and paying homage at BITM lawn.

Hindi Week:

Celebration of Hindi Week was observed during 9 – 14 September 2021 with competitions on Noting & Drafting, Essay Writing on 'Online Classes – Pros 7 Cons' and Speech on 'COVID-19 Pandemic', in Hindi, followed by valediction of all winners from amongst BITM Staff Members.

National Engineer's Day:

To mark the National Engineer's Day on 15th September 2021, an online Popular Lecture on 'Nuclear Achievements of India: Broader-Spectrum' was delivered by Dr. A. P. Jayaraman, Nuclear Scientist, attended by 542 viewers. An online Workshop on Basic Electronics was conducted by Innovation Hub, BITM, on the theme 'Design Your First Electronic Circuit'. 29 students of classes VI-X participated in this paid hands-on workshop session. Online Quiz on 'Achievements of Engineers in India since Independence' was attempted by 90 students.

International Day of Scientific Culture:

To mark the International Day of Scientific Culture on 28th September 2021, an online Popular Lecture on 'Michael Faraday and the Dawn of Electrical Age' was delivered by Dr. Jayanta Sthanapati, Former Dy. Director General, National Council of Science Museums, attended by 600 viewers. Online Slogan-Writing Contest on 'Importance of Scientific Culture' was attempted by 125 students.

Vigilance Awareness Week:

On the occasion of Vigilance Awareness Week a 'Slogan-Writing Contest' was held on 26 October, 2021 on 'Self Reliance with Integrity' and another online 'Quiz' was organized on 1 November 2021 on 'Vigilance Awareness'.

Gandhi Jayanti:

Two online Events, namely, 'Virtual Tour of the Exhibition - Gandhi & Science' and an 'online Quiz on Gandhi & Sustainable Science' was organized through Google form.

Children's Day Programme:

Children's Day programme commenced with the release of Balloons with COVID'19 Awareness Slogans. Events organized were 'Identify the Bird and mimic it's Call' competition, Street Drama by underprivileged Children, Special Science Show with 'Liquid Nitrogen' and Film Show. 6 NGOs and 2 schools took part with 400 students including a large number of under privileged ones. The outside façade of BITM building was be lit up on 20 and 21 November, 2021 with support from Calcutta Press Club and UNICEF as part of #GoBlue campaign.

Constitution Day:

BITM observed Constitution Day 26 November, 2021 with reading of the preamble of the constitution by the staff members at BITM lawn led online by the Hon'ble President of India.

22nd Niroprova Memorial Online Lecture:

The Royal Society of Chemistry, Eastern India Section organized the 22nd Niroprova Memorial Online Lecture on 30th November, 2021. Dr. Prof. Debprasad Chattopadhyay, Former Director, ICMR-National Institute of Traditional Medicine, Belgavi, Karnataka spoke on 'COVID-19 : Origin, Biology, Pathology and Management'.

West Bengal State Level Quiz:

As a part of the national wide campaign 'Azadi Ke Mahosav' BITM organized the State Level Science Quiz 'Scientific Achievements of India in the Past 75 Years' on 26 January 2022. Five district toppers from Darjeeling, Purulia, Bardhaman, Purba Medinipur and Kolkata participated. District level quiz was held on 15th August 2021. Adrita Mullick, Ashok Hall Girls Higher Secondary School, Kolkata was the winner.

458th Birth Anniversary of Galileo Galilei: 17 schools with 195 students and 20 teachers participated in the 'Quiz' and Film show on 'Galileo' programme on the occasion of the **458th Birth Anniversary of Galileo Galilei** on 15 February 2022 at BITM. 97 visitors enjoyed the sky observation programme through telescope.

National Science Week Programme:

As a part of the National Science Week from 23 to 28 February 2022, BITM organized an Exhibition '75 Years of Independence- India's Achievements in Science & Technology', a Mathematics Workshop entitled 'Mathematricks', Online Popular Lecture on 'Wonders of the Night Sky – A

Masterclass in Everyday Astrophotography by Dr. Arup Ratan Dutta, Director – Nephrology, Fortis Hospital & Kidney Institute, Kolkata, Film Show ‘Galileo Galilei’ a Science Show, Observation of Constellations in the Sky, another online lecture on ‘Lecture entitled ‘A storyline from ‘Coal to Renewable Energy Sources’ by Prof. Shani Pada Gon Chaudhuri, Former Managing Director, West Bengal Renewable Energy Development Agency, Govt. of West Bengal.

International Women’s Day:

An Online Quiz was organized by BITM on 8 March, 2022 on the occasion of International Women’s Day on the topic ‘Celebrating Indian Women in Science’. 64 students participated.

World Forestry Day:

BITM observed ‘World Forestry Day’ on 21 March 2022 with a Quiz on ‘Forest & Mankind’ followed by a Popular Lecture on ‘Changing Perception of Forest Conservation’ by Dr. Pranabesh Sanyal, Former Chief Environment Officer, Govt. of West Bengal. 130 students attended.

Official Film Selection:

‘Characterizing Colour - Sir C. V. Raman at Work’, a Birla Industrial & Technological Museum production premiered on 28 February 2021, was declared to be an Official Selection of Goethe-Institute Science Film Festival 2021. It was screened in Bangladesh, India, Pakistan and Sri Lanka during October 1 to December 20, 2021. The Film was also the Official Selection of the 7th India International Science Festival 2021 and was screened in hybrid-mode.

Noble Lecture Series:

Hailing the achievement of the above Nobel Laureates in Science, BITM arranged a Lecture Series on 26, 27 and 28 October, 2021. On 26 October 2021, Dr. Madhumita Dobe, Director & Professor (Public Health), All India Institute of Public Health spoke on ‘Temperature and Touch – What we Knew and What we Know’. On 27 October 2021, Shri Pallab Roygupta, Physics teacher and Science Writer elaborated on ‘Disorder, Spin Glass and Chaotic Climate’ and on 28 October, 2021, Dr. Nitin Chattopadhyay, FASc, FNASc, FAScT, Professor, Dept. of Chemistry and Dean, Faculty of Science, Jadavpur University dwelt on ‘Miracles of Molecules’.

Quiz Conducted at Jagadish Bose National Science Talent Search, Kolkata:

BITM conducted a Quiz on ‘India’s Achievements in Science & Technology’ as part of the Festival of SCoPE (Science Communication Popularization and its Extension) organized by JBNSTS-Vigyan Prasar (SCoPE-Bangla) on 26 February 2022. Participating students – 10 nos.

Participation in the 17th Konnagar Science Fair:

BITM participated with a "Fun Science Show" on 13 February 2022 in the Konnagar Science Fair organized by Juktiman Kala O Bignan Kendra.

Participation in Mega Fair:

BITM participated in the Meghnad Saha Vigyan Mela with an exhibition on ‘Fun Science’. The fair was organized by Paschim Banga Vigyan Mancha at Rashbehari Triangular Park, Kolkata from 9 to 12 March, 2022. Footfall in BITM pavilion – 6000 nos.

Innovation Idea Poster Contest:

An online Innovative Idea poster Contest was organized by BITM’s Innovation Hub and Biotech Lab on 14 March 2022 for school and college students. The topic for Idea Contest was “Integrated Approach in Science and Technology for a Sustainable Future”. 69 entries were received.

An Awareness Programme on East Kolkata Wetlands:

BITM with support from Royal Society of Chemistry, Eastern India Section organized an Awareness Programme on East Kolkata Wetlands 14 March 2022. The events were an ‘Release of a Quiz Booklet on East Kolkata Wetlands Biodiversity’ based on a study conducted by the students of Birla High School and an Online Quiz Contest on ‘East Kolkata Wetlands Biodiversity’ conducted by the students of Birla High School.

Innovation Hub Activity:

Online & offline projects:

Home based satellite dish antenna system for signal measurement, Hydraulic Water Pump using waste materials, Automatic Solar Tracker, Recreating Food Materials in Blender – Basic 3D Model Design, Mushroom Messaging Android App, Virtual Alphabet making using Robotic Simulation, Voice Controlled Bluetooth operated Car, Generating Electricity using PWM speed regulator module, Wall Maze Project using Robotic, Security Controlling Robot, Portable Hand Made Disk Cutter, Free book reading website design, Surveillance Robo-Car, Mechanical Robotic Hand, 2D plotter machine using simple mechanics.

Workshops:

- i. Online Workshop on 'Basic Robotics' (Phase-1 & Phase-2) was conducted by Innovation Hub, BITM on 17th & 29th June 2021 for the girl students of Innovation Hub & several institutions. Overall 64 girl students of Innovation Hub and others participated these hands-on workshop sessions.
- ii. Online Workshop on 'Basic Electronics - Design your First Electronic Circuit' was organized on the occasion of "National Engineering Day" on 15th September 2021 for the students of different institutions. Overall, 29 students participated in this paid hands-on workshop session.
- iii. Online paid Workshop on 'Virtual Robotics' was organized by Innovation Hub, BITM on 13th November 2021 for the students of different institutions. Overall, 78 students joined in this online session.
- iv. Online paid Workshop on Electronic Circuit Design was organized by Innovation Hub, BITM on 27th November 2021 for the students of various institutions. Overall, 54 students participated in this online event session.

Important Event:

An online session is arranged for celebrating the birthday of Netaji Subhas Chandra Bose on 23rd January, 2022, for Innovation Hub, BITM members and Swastika Par, member of IH, BITM designed few Small size (5.5 cm) painting & painting on Pumpkin seeds of Netaji Subhas Chandra Bose.

Innovation Festival 2022:

Innovative Idea Poster contest on the topic "Integrated Approach in Science & Technology for Sustainable Future" arranged through online mode for junior, senior and college level students on the occasion of National Science Day on 28th February.

Achievements:

- i. Purbayan Dey, a member of Innovation Hub, BITM certified by GUVI –The Guinness World Record Event. The event was about most users taking an online computer programming lesson in 24 hours on April 24 2021, 6 pm to April 25 2021, 6 pm.
- ii. Aritra Neogi, a member of Innovation Hub, BITM is certified by the online Tech-Prize App Competition, Racine, USA held on 8th May 2021.
- iii. Junior Mentors of IH, BITM participated in an online Math Works Automotive Conference Talk – "MATLAB EXPO 2021" held on 4th & 5th May 2021.
- iv. BITM Innovation Hub members Sourish Bose & Subhayan Debbarma have achieved The Budding Innovator Award and The Jurys' Choice Award respectively in the "Scratch YOUR Head" 2021 competition in class 6 to 8 standard and organized by LakshmiPat Singhania Academy Kolkata.
- v. Innovation Hub BITM members Purbayan Dey, Pratyush Roy and Nishant Rana selected for an Innovation Festival in form of Science Model Exhibitions organized by Kalimpong Science Centre in association with National Innovation Foundation- India on virtual platform on August 13-15, 2021.
- vi. Innovation Hub BITM new member Rajanya Chakraborty securing 1st position in Qualifying round in Little Leap Olympiad.

- vii. Aritra Neogi, a member of Innovation Hub, BITM selected in National level nominee for Inspire Awards MANAK 2021-22 for the final round.
- viii. Disha Chakraborty, a member of Innovation Hub, BITM, got the chance to join a training (starts from 20th August 2022) on Astrophysics (Astronaut Trainee) in Advanced Space Academy, NASA will organize this training at US Space and Rocket Centre, Huntsville, Alabama, United States.
- ix. Kaveri Sinha Mahapatra, a member of Innovation Hub, BITM, received Jagadis Bose National Science Talent Search- “Junior Bigyani Kanya Medha Britti Award”, a prestigious and significant scholarship.
- x. Three of our Innovation Hub, BITM members Ahana Maji, Gaurabadya Ghosh & Nishant Rana secured 1st, 2nd and 3rd Position in the Innovative Idea Poster Contest Part A: of Innovation Festival 2022 on the occasion of National Science day on 28th Feb 2022.
- xi. Innovation Hub, BITM member Ahana Maji secured 2nd rank in the category of PowerPoint Presentation in 9th Science Festival & Meet the Scientists Program 2021 titled ‘Tribute to Einstein’ organized by CPS Science Club on 8th & 9th May 2021.
- xii. Innovation Hub, BITM members Ridhhi Senpati, Debang Kumar Shaw and Avni Sekseria obtained 1st and 2nd position respectively in Drone workshop which was conducted by BITM, Kolkata on 23rd & 24th October 2021.
- xiii. Junior Mentors of Innovation Hub, BITM participated in a 2-day International Symposium (Virtual mode) on “Advances in Opto-Electronics” arranged by Department of the Physics, NIT, Warangal on 29th & 30th July 2021.
- xiv. Junior Mentors of Innovation Hub, BITM participated in 6 days AICTE sponsored STTP on “IOT and its Application in Industry” from 19-24 July 2021 arranged by Department of the ECE of SMIT, Sikkim.

Biotech Lab Activities:

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

1. Microbial evaluation of different hand drying methods after proper hand washing
2. Comparative study - Effectiveness in the removal of bacteria by different types of sanitizers and soaps
3. Extraction and estimation of chlorophyll content of some commonly consumed leaves by people of Kolkata
4. Comparative analysis of extracted chlorophyll in freshly plucked curry leaves and dried curry leaves.
5. Comparative study of chlorophyll content in young and mature leaves.

Training Programs:

5 no of Hands-on Training Programs on ‘Microbiology and Molecular Biology Techniques’ were conducted for undergraduate life science students during the year. 3 workshops in April 2021 and 2 workshops in November 2021. Overall 200 students participated.

List of Popular Lectures:

Date	Topic	Lecturer	Mode
07.04.2021	Protection against COVID-19 and Development of Indian Vaccines	Dr. Kajal Krishna Banik Public Health Specialist & Epidemiologist	Online
12.04.2021	Illustrative Presentation on ‘First Human in Outer Space’	Ishita Sinha, Ankita Ganguly Students of Language Learning Division of Russian Centre for Science & Culture, Gorky Sadan, Kolkata	Online

Date	Topic	Lecturer	Mode
18.05.2021	The Future of Museums: Recover & Reimagine	Dr. Jayanta Sthanapati Former DDG, NCSM	Online
05.06.2021	Footprints of Climate Change in the Sundarbans	Dr. Sourabh Kumar Dubey Expert on Indian Sundarban & Institutional Development Specialist, World Bank Project	Online
15.09.2021	Nuclear Achievements of India: Broader Engineering Spectrum	Dr. A. P. Jayaraman Nuclear Scientist (BARC 1964-2004); Chairman, National Centre for Science Communicators, President – STEAM Academy	Online
28.09.2021	Michael Faraday & the Dawn of Electrical Age	Dr. Jayanta Sthanapati Former DDG, NCSM	Online
26.10.2021	Temperature and Touch - What we Knew & What is New	Dr. Madhumita Dobe Director-Professor (Public Health), All India Institute of Hygiene & Public Health	Online
27.10.2021	Disorder, Spin Glass & Chaotic Climate- Hidden Rules that Riles Complex Systems	Shri Pallab Roygupta Physics Teacher, Green Point Academy, Kulti, Science Writer & Communicator, Shaastra Magazine, IIT Madras	Online
28.10.2021	Molecules are Miracles	Dr. Nitin Chattopadhyay FASc, FNASc, FAScT Professor, Department of Chemistry Former Dean, Faculty of Science Jadavpur University	Online
30.11.2021	COVID-19: Origin, Biology, Pathology and Management	Dr Prof. Debprasad Chattopadhyay Former Director and Scientist-G, ICMR-National Institute of Traditional Medicine, Belgavi, Karnataka	Online
14.12.2021	Save Energy, Save Money, Save Planet	Dr. Punarbasu Chaudhuri Dept. of Environmental Science, University of Calcutta	Online
22.12.2021	Mathematics: From Nature to Modernity	Sk. Monowar Hossein Professor, Dept. of Mathematics & Statistics, Aliah University	Online
25.02.2022	Wonders of the Night Sky - An Everyday Guide to Capturing the Heavens	Dr. Arup Ratan Dutta Eminent Astrophotographer, Director – Nephrology, Fortis Hospital & Kidney Institute, Kolkata	Online

Date	Topic	Lecturer	Mode
28.02.2022	A Storyline from Coal to Renewable Sources	Dr. Santi Pada Gon Chaudhuri Former Director, West Bengal Renewable Energy Development Agency, Government of West Bengal	Online
21.03.2022	Changing Perceptions of Forest Conservation	Dr. Pranabesh Sanyal IFS (retired), Former Chief Environment Officer, Govt. of West Bengal	Online

Training, Workshops, Conferences, Seminars and Camps:

Online Summer Vacation Science Camp

The vacation science camp at BITM was first held from 16 to 18 June 2021 for 193 students of Ananda Ashrama Sarada Vidyapeeth on 'Mobile App Making'. They developed 6 projects. The 2nd phase of camps on Physics, Chemistry, Mathematics and 'Mobile App Making' was held on 23 and 24 June 2021 in which 74 students developed 41 projects. The event was held through Google Meet.

Online Workshop on Basic Robotics for girl students

An Online Workshop on Basic Robotics was arranged by BITM for girl students on 29 June 2021 through Google Meet. First 90 Applicants were inducted and allowed to participate.

Online Internship for Museology Students

Nine PG students from the Dept. of Museology, University of Calcutta is currently undergoing a training programme conducted online in the fields of Model Making, Exhibit presentation and Public Relations. It was continued till 15 July 2021.

In-Person Training for Museology Students of CU

BITM conducted Internship training for 9 Museology students of University of Kolkata from 1 May to 30 July, 2021. They were trained in the field of gallery demonstration, publicity & public relations and designing exhibits.

Awareness Programme on Antimicrobial Resistance

Birla Industrial & Technological Museum and the All India Institute of Hygiene & Public Health, Directorate General of Health Services, Govt. of India launched a health education program on Antimicrobial Resistance (AMR) among school students, their guardians and teachers on 21st September 2021. The programme was launched with a Google Form Questionnaire as a baseline survey to decide on the subsequent awareness interventions.

Workshop on Unmanned Aerial Vehicle (Drone)

A 'Drone Making Workshop' was organized by BITM on 23 and 24 October 2021. The workshop includes Multi-rotor Drone Assembly, Fixed Wing Glider Making, Hand Glider Competition and actual flying of the Drone inside BITM premises. As per our capacity, 60 students from 13 schools, were accommodated.

Training Programme on Biotechnology

Training Programme entitled "Hands-on Biotechnology Activities" for 80 Undergraduate Students was held in two batches on 8 and 9 November, 2021 at Biotech Lab, BITM.

Workshop on Robotics and Electronics

Online Workshops on 'Virtual Robotics' and 'Electronic Circuit Design' was organized by BITM Innovation Hub on 13 and 27 November 2021 for 78 school students of Class VI to XII.

Workshop on Mathematics

A Mathematics Workshop entitled 'Mathematricks' was organized by BITM on 24 February 2022. 32 students participated.

School Ambassador Meet at BITM

150 schools of Kolkata selected a teacher who met at BITM on 22 March 2022. They were briefed about the recent activities of BITM. They will act as an Ambassadors of BITM and will advise the school authorities regarding participation in events and towards utilising the facilities available for students at BITM. Shri Sandipan Saha, MBA, IIM Calcutta; Member, Mayor-in-Council (Education and IT) KMC and Smt. Chandana Mandal, Deputy Commissioner, Kendriya Vidyalaya Sangathan, Kolkata Region inaugurated the meet.

Catalytic Support to Other Organizations:

Popular Lecture

Lecture on "Innovation Amidst Adversity" by noted innovator Mr. Sonam Wangchuk was arranged on 31 December, 2021 jointly by Science City and BITM in the Main Auditorium of Science City, Kolkata. 1100 students and teachers participated. Support was provided in way of inviting students and arranging press conference.

Srikrishna Science Centre, Patna

New Facilities:

Development of a New Gallery

SSC Patna developed a new gallery on Ocean –The Blue World consisting of 12 exhibits which are as follows:

Birth of Ocean, Ocean Current, Mysteries of Ocean, Constituent of Ocean, Pressure in Ocean, Augmented Reality, Plastic Pollution, Life in the Ocean, Light in the Ocean, Sea Lions, Oceans of the world and Sonar.

Temporary Exhibition:

A temporary exhibition on Life & Works of 75 Indian Scientists and Organizations

Consisting of 30 Panels focusing on developments in Science and Technology in India since Independence was Inaugurated on February 22, 2022 by Shri K.C Sinha, Vice Chancellor, Nalanda Open University, Patna. The exhibition was open to the public from February 22 to February 28, 2022. Total Visitors Footfall in the exhibition was 9463.

Development of new Kits on Mathematics for SCERT, Bihar

Shrikrishna Science Centre, Patna had developed a new and unique Science Demonstration Lecture Kit on Mathematics, based on the school curriculum of class V- VIII. A total of nine kits were made on the requirements demanded by SCERT, Patna. Important concepts like- Decimal and Fraction, Algebraic Equations, Graphical Representations, Geometrical shapes, Measurement of Angles etc. were covered in this kit. Total 02 Sets of the above mentioned Kits were developed.

Special Events:

Children's Week Celebration 2021

A week long special program was organized to celebrate the Children's Day. Many activities such as Science Magic Show, Open House Science Quiz, Science Demonstration Lecture and Special Sky Observation Program had been organized for the little kids as a part of week-long celebrations of Children's day. A huge no. of students took part in all those events.

State Level Drama & Folk Dance Competition was also organized as a part of Children's Week Celebration in collaboration with State Council of Educational Research and Training (SCERT), on various Topics such as Save Environment, Stop Female Foeticide and many other, in which 38 Schools from 19 different Districts of Bihar had participated. Students had performed their Drama and Dance Performance on such topics in front of the judges and the visitors. A total of 250 students, teachers and parents were present during this 2 days program.

Celebration of Swachhta Pakhwada

SSC, Patna had organized and celebrated the "Swachhta Pakhwada- 2021" from 16-30th April, 2021. On the occasion, two programs were organized as: i) Pledge taking ceremony by the officials, ii) Special cleaning drive of the office premises.

Constitution Day Celebration

Date: 26th November, 2021

The officials of Shrikrishna Science Centre, Patna Read the Preamble of the Constitution of India led by the Honourable President of India. Apart from this, A Link of Online Quiz on Constitutional Democracy was also shared on the official Facebook page of Shrikrishna Science Centre provided by Ministry of Parliamentary Affairs for maximum Public Participation.

Hindi Saptah Samaroh- 2021

Date: 14- 16, September 2021

Under the Hindi Saptah Samaroh Celebration, Starting with oath taking ceremony, Shrikrishna

Science Centre had organized various programs and competitions for its staff members to encourage them to use the language in a day to day life. The List of activities is as:

September 14: Essay Competition

September 15: Speech Competition

September 16: Translation Competition

Hindi Workshop 2021

Hindi workshop on 'Computer par Hindi Me Kaam Kaise Karen' was held on December 22, 2021 organized by NCSM in which officials of SSC Patna had participated.

Hindi Workshop 2022

Hindi Workshop on 'How to fill up the questionnaire of Committee of Parliament on Official Language' was held on March 16, 2022 in which officials of SSC Patna had participated.

Celebration of Swachhta Pakhwada

SSC, Patna had organized and celebrated the "Swachhta Pakhwada- 2021" from 16-30th April, 2021. On the occasion, two programs were organized which are as follows:

- i) Pledge taking ceremony by the officials.
- ii) Special cleaning drive of the office premises.

World Environment Day 2021

The following programmes and activities were organized on the occasion of World Environment Day- 2021,

- i) Online Painting competition for the students of class VI - X on the topic: Our Ecosystem. In the program, Total Number of Participants was: 38
- ii) Online Popular Science lecture on the Topic: "Ecosystem Restoration" Posted on our official YouTube Page.
Like (YouTube): 06

Innovation Hub Activity:

Various types of science activities were organized for the members of Innovation Hub to enhance their learning capacity and to engage them during the period.

The list of the activities is given below:

- Projects done : Home Cleaner mini robot, Integrated Flower irrigation system, Untouchable door Bell, Teacher Training Programme, Speaking hearing Aid, Children's day celebration, Land Combat Rover, Cricket ball throwing machine, Safety Cupboard
- Webinar on Vaccine & Vaccination through Google Meet.
- Website Editing Workshop on Basic of Electricals
- Series of Science & Nature Quiz (Environment),
- STEM Learning Webinar on Women in STEM (Motivational webinar for "Girls' & Women's education in STEM),
- Magic with mathematics (STEM) Learning Webinar & Workshop),
- Drone for Agriculture, Project Blind Eye,
- Innovation hub members participated in NCSC 2021 and one team qualified in district and State Level. machine, Safety Cupboard, No. of students benefitted: 5560

Collaborative Programme

Master Trainer Teacher' Training Program at District Level

Nature Study Camp, Patna in Collaboration with Shrikrishna Science Centre had organized Teacher's Training Program on the topic: "Nature" from 20th October to 23rd October, 2021 in which 65 number of Students, teacher and Government and Non- government staff of Patna district had participated and made six projects on the above mentioned topic.

Celebration of "Vigyan Sarvatra Pujyate"

Shrikrishna Science Centre, Patna organized a week-long celebration of "Vigyan Sarvatra Pujyate" under Azadi ka Amrit Mahotsav in collaboration with Vigyan Prasar from 22nd to 28th February, 2022. The programme had been designed to inspire India's youth and help them navigate into building a progressive nation; bring to therefore stories of people in science who made these achievements possible; reinforce the commitment of the scientific community towards the economic and social development of the country; present the awe inspiring futuristic mega science projects embarked by the nation and highlight the work being done by R&D organizations from across the country, as they lead science and technology efforts on the road to 2047. The event would display the country's scientific legacy and technology powers that had helped find solutions to defense, space, health, agriculture, astronomy, and other sectors.

The programmes had been grouped under four themes. The first theme is 'from the annals of the history of S&T'. This section traces the contributions of founders of modern science and institutions of national importance to nation-building. It will be done in the form of the screening of 75 films on 75 scientists, and 75 lectures by eminent scientists and technocrats.

The programmes under the second theme, 'Milestones of Modern S&T', will highlight critical discoveries, innovations, or inventions that made a mark in the global science or India's development story.

The third theme, 'Swadeshi Paramparik Inventions and Innovations', will showcase 75 inventions or technologies that made India self-standing and helped in achieving the goal of self-reliance by drawing upon the reservoir of traditional knowledge systems, such as drugs from herbs.

The fourth theme, 'transforming India', will look at the road ahead for the next 25 years of Indian S&T. It would include talks by 75 eminent scientists & technocrats from within India and the diaspora on their ideas for Indian S&T as it marches towards the centenary year of India's independence.

DAY ONE: On the Inaugural Day, The Poster exhibition and Book fair unveiled by the chief guest, Shri K. C Sinha, Vice Chancellor of Nalanda Open University, Patna. After that, Science film show and a written science Quiz were organized for the students and teachers. Total 307 people were present in this program.

DAY TWO: On the Second day, a Popular Science Lecture was delivered by Dr. Sudhanshu Bhusan, Scientist 'F', DRDO, Ministry of Defence, Government of India. Science Film Show, Essay Writing Competition, Poster Exhibition and Book had also been organized for students, teachers and general visitors in this week long celebration. Total 315 people were present in this program.

DAY THREE: A Popular Science Lecture was delivered by Dr. Ashish Kumar, Scientist 'C', RMRIMS- ICMR, Ministry of Health and Family Welfare, Government of India. Science Film Show, Elocution Contest, Poster Exhibition, Book Fair had been organized for students, teachers and general visitors. Total 320 people were present in this program.

DAY FOUR: A Popular Science Lecture in Hybrid mode was delivered by Shri G S Rautela, Former Director General, National Council of Science Museums, Ministry of Culture, Government of India. Science Film Show, Open House Quiz, Poster Exhibition, Book Fair had been organized for students, teachers and general visitors. Total 305 people were present in this program.

DAY FIVE: SCIENCE LITERATURE FESTIVAL: Under Science Literature Festival, ten Science Documentaries and Short Films were screened at the science centre. These documentaries were directed by Young Scientists and Artists. Along with this, Poetry recitation on science and a Drama on

the theme: Science and Us were also performed by a group of Students who were from Kilkari Bihar Bal Bhawan, Patna. After the performance, Sit & Draw Competition was also organized for the students (Junior & Senior Group) on the topic: India's Space Programme. Total 410 people were present in this program.

DAY SIX: A Science Film Show for General visitors and for Students was organized, Along with this, an open House Quiz on the topic: Aaiye Pehchane: Hamare Mahan Vaigyaniko Ko, was also organized. Many General visitors and students had actively participated in the event. Total 338 people were present in this program.

DAY SEVEN: Two Popular Science Lectures were organized on the Final Day of the program. The first lecture was delivered by the former Professor of BIT Mesra, Shri Krishna Chandra Bajpai on the topic: Vishwa paridrishya me bhartiye vaigyaniko ka yogdan. The Second Lecture was delivered by the Professor of Physics, IIT Patna on the topic: Optics and Photonics. A Science Film show was also organized for the visitors and students. At the end, the Prize Distribution ceremony was conducted and winners were felicitated by the guests. Total 400 people were present in this program.

District Level Online Teacher's Orientation Workshop on the topic:

Science for Sustainable Living for 29th National Children's Science Congress

In collaboration with NCSTC and Science for Society, Shrikrishna Science Centre, Patna had organized an online Teacher's Orientation Workshop on 14.08.2021 for the teachers of Patna District, in which 65 numbers of teachers had participated and delivered their respective presentations and Resource Person's had given their valuable suggestions to improve their ideas on the above mentioned topic.

District Level Online Student Orientation Webinar on the topic:

Science for Sustainable Living for 29th National Children's Science Congress In collaboration with NCSTC and Science for Society, Shrikrishna Science Centre, Patna had organized an online Student Orientation Webinar on 30th October, 2021 for the Students of Patna District on the topic: Science for sustainable living. In this Webinar, Students had presented their 75 projects based on the above mentioned topic. Judges reviewed their projects and gave them the required feedback. 7 students had been selected for the state level competition from this competition. 250 Students, teachers and judges were present in this online webinar.

Online Class for Certificate Course on Museum Studies conducted by Kolkata Centre for Creativity

On the Topic: Exhibition Planning & Maintenance, an online class was conducted by the Project Coordinator of Shrikrishna Science Centre, Patna on 12th June, 2021. The Class was attended by 32 students of three months certificate Course on Museums Studies.

Special Programme for Girl Child

In collaboration with Nirman (Non-Government Organization) Shrikrishna Science Centre, Patna organizes a Capacity building Workshop for Girl Child on 25th November, 2021 on the topic "MENSTRUAL HEALTH & HYGIENE" to make them understand the importance of Menstrual Health and Hygiene. 152 Students from Ayub Urdu Girls High School had attended this workshop and get to know lot of important practices to keep menstrual hygiene for better healthy life.

Corona Warriors Felicitation Programme

A felicitation program was organized in collaboration with Prem Youth Foundation on 13th December, 2021 to appreciate the efforts of corona warriors who helped many needy people by providing oxygen cylinders to them during the second wave of Corona Pandemic.

Orientation Program of Bihar Education Service Officers

An Orientation Program for the Officers of Bihar Education Service was organized on 7th March, 2022. In this program, they came to know about the role of Science Centres and Science Museums

in the society and how science popularization is being done through these Institutions. The special Emphasis was on the role of Mobile Science Exhibition buses that how these buses reach to very corner of the country and became a source of informal learning for the students. These officers are posted as District Programme Officer in each district of Bihar and this orientation Programme will help them as well us to work together for the betterment of the society and to popularize science to each and every corner of Bihar.

Participation in Government Programme & Initiative:

Celebration of Bihar Diwas

Shrikrishna Science Centre, Patna in collaboration with Bihar Education Project Council, Patna had organized a Science Expo at Gandhi Maidan, Patna on the occasion of Bihar Diwas, 2022. The Honourable Minister of Education, Shri Vijay Kumar Choudhary, Inaugurated the Exposition and assesses many innovative projects made by the Members of Innovation Hub. Apart from the Science Expo and Science Demonstration Lecture, SSC Patna had also taken the 3 Mobile Science Exhibition buses to the program to make it accessible to each student for their betterment. Exhibits of the buses were also placed for Demonstration to the students and General visitors. The Day was concluded by the presence of Honourable Chief Minister, Shri Nitish Kumar Ji. He gave his precious time to see the projects made by the students. The whole program was scheduled from 22nd – 24th March, 2022. The Event was well covered by the Print and Electronic Media of the state. The number of visitors who visited the Science Exhibition by the centre is: 2.25 Lakhs visitors.

List of Popular Lectures:

Date	Topic	Lecturer	Mode
22.05.2021	Explore the Biological Diversity in your Garden	Shri Gaurav Kumar Pandit Mentor-Innovatin Hub, SSC Patna	Online
11.07.2021	Global Population Scenario	Prof. (Dr.) Ras Bihari Singh Former V.C, Patna University	Online
20.08.2021	Mosquito-Borne Disease and Prevention	Shri Dr. Devi Shankar Suman Scientist 'D', Zoological Survey of India	Online
16.09.2021	Science of Ozone Layer	Prof. (Dr.) Ras Bihari Singh Former V.C, Patna University	Online
28.09.2021	Majestic Rivers of World	Md. Aftab Hussain Education Assistant, SSC Patna	Online
26.11.2021	Importance of Independence of India	H.O.D, Dept. of History, Patna University	Online
14.12.2021	Importance of Renewable Energy	Prof. Vivek Upadhyay H.O.D, Electrical Engineering Vaishali Engineering Collge	Online

Date	Topic	Lecturer	Mode
12.01.2022	Swami Vivekanand : An Inspiring Personality	Shri Vishwanath Gupta Education Officer, SSC Patna	Online
22.02.2022	Way of Learning Mathematics	Shri K.C. Sinha Vice Chancellor, Nalanda Open University	Online
23.02.2022	Upcoming 25 years in Science & Technology	Dr. Sudhanshu Bhusan Scientist 'F', DRDO, Ministry of Defense, Govt. of India	Online
24.02.2022	Development of Science & Technology in independent India	Dr. Ashish Kumar Scientist 'C', RMRIMS- ICMR, Ministry of Health & Family Welfare, Govt. of India	Online
25.02.2022	Innovation and Creativity	Shri G.S Rautela Former Director, General NCSM, Ministry of Culture, Govt. of India	Online
28.02.2022	Vishwa Paridrishya mein Bhartiye Vaigyaniko ka yogdan	Shri Krishna Chandra Bajpai Former Professor. BIT, Mesra	Online
28.02.2022	Optics and Photonics	Prof. Naveen Kumar Nischal Prof. of Physics, I.I.T, Patna	Online

Camps, Workshops and Training Held:

Teacher's Training Program 2021

21st – 23rd October, 2021

Shrikrishna Science Centre, Patna had organized a Teacher's Training Program for the Trainee Teacher's of Patna Women's College, Department of Education.

The total numbers of trainee teachers were: 39

In this TTP program, Teacher's were encouraged to make low cost science kits for their teaching purpose.

The whole program was divided in various sessions, namely on Physics, Mathematics, Biology, Chemistry and a very unique session on the topic: "Misconceptions in Science". Apart from these sessions, another session of Science Demonstration Lecture on the topic: Amazing Physics was organized for the trainee teachers to enhance their teaching skills.

Creative Science Workshop

SSC Patna had organized a Creative Science Workshop on the topic: Scientific Toy Making for School Students from class 5 to 8 on 8th & 9th June, 2021 to nurture their Scientific Skills and to create scientific awareness amongst the students.

10 students participated in the workshop and 110 projects completed.

Online Summer Vacation Camp 2021

SSC Patna had organized a month long "Online Summer Vacation Camp 2021" for School Students from class 5 to 12 to nurture their Scientific Skills and to create scientific awareness amongst the

students on different topics as:

- I) Basics of Electronics
Date- 15- 16 May, 2021
Number of Participants- 24 Number of Projects- 144
- II) Scientific Toy Making
Date- 22- 23 May, 2021
Number of Participants- 32 Number of Projects- 352
- III) Magic of Mathematics
Date- 29- 30 May, 2021
Number of Participants- 35 Number of Projects- 385
- IV) Know About Arduino
Date- 5- 6 June, 2021
Number of Participants- 25 Number of Projects- 200

District Science Centre, Purulia

New Facilities:

Inauguration of “Giant Magic Water Tap” Exhibit

A Giant Magic Water Tap Exhibit was installed at the entrance of District Science Centre, Purulia on 16th November 2021. Mufti Samam Sawkat, WBCS(Exe), Additional District Magistrate of Purulia was the chief guest and inaugurated the exhibit in presence of Shri Nabendu Mahali, the Chairperson of Purulia Municipality. It was highly covered by almost all media and gradually became a prime attraction for the visitors. Good number of students and common people attended the inaugural programme.

Inauguration of Exhibition on 75 years of Indian Independence: India`s achievements in Science & Technology

To highlight India`s achievements in the field of Science & Technology District Science Centre, Purulia inaugurated an Exhibition on “75 Years of Independence: India`s Achievements in Science and Technology”. The Exhibition was inaugurated by Prof. (Dr.) Dipak Kumar Kar, Vice-Chancellor, Sidho-Kanho-Birsha University, Purulia on 22nd February, 2022 and continue to 28th February, 2022.

Many programmes were organized on this occasions which are as follows:

Popular Science Lecture, Essay Writing Competition, Slogan Writing Competition, Elocution competition, open house quiz, meet the scientist programme painting competition consisting three groups etc.

Swami Shivapradanandaji Maharaj, Ramkrishna Mission Purulia was the Chief Guest and Shri V. S. Ramachandran, Director, BITM, Kolkata was the Guest of Honour In the valediction and prize distribution ceremony.

Special Events:

Observation of International Yoga Day

International Yoga Day was observed on 21st June, 2021 by organizing the following events:

- Online Essay Writing competition on “Yoga for Well-being”
- On Online Yoga performing competition in the topic of on “Yoga for Well-being
- Yoga Practice season with conducted by eminent yoga expert Shri, Milan Dutta.
- Online Quiz Competition for students on “Health & Yoga”.

Observation Hindi Day

District Science Centre, Purulia organized Hindi Day on 14th September, 2021. Staff members of DSC, Purulia took part in this programme. Different competitions like slogan writing, essay writing competition, Hindi newspaper reading, poem reading etc. were organize. Dr. Ramjit Prasad, Assistant professor, Department of Hindi, J.K. College, Purulia was the chief guest on this occasion.

Observation of Vigilance Awareness Week

District Science Centre, Purulia observed Vigilance Awareness Week from 26th October to 1st November, 2021 to create awareness among people as well as students. The following programmes were organized:

- integrity Pledge by Staff members of DSC, Purulia on 26.10.21.
- Online Painting Competition on 27.10.21
- Online Essay Writing Competition on 28.10.21
- Elocution competition for Innovation Hub Members on the topic ‘Eradicate Corruption - Build a New India’ on 31.10.21

Celebration of Samvidhan Diwas (Constitution Day)

Samvidhan Diwas was celebrated on 26th November, 2021 to create awareness among people

as well as students as per instruction received. Popular Lecture was delivered by Prof. Samirranjan Adhikari, Department of Education, Sidho Kanho Birsha University on this occasion.

Celebration of Republic Day

73rd Republic Day of India was celebrated on 26th January, 2022. A flag hosting ceremony took place at 10 a.m. on that day. After that a one Online Popular Science Lecture was delivered by Dr. Dayamay Roy, Teacher & Researcher, Rangadih S.B. High School, Purulia on "Role of Manbhum in Indian Freedom Movement".

Participating in Government Programmes/Initiatives:

Swachhta Pakhwada

District Science Centre, Purulia observed Swachhta Pakhwada from 16th to 30th April, 2021 to create awareness among people as well as students as a part of "Swachhta Abhiyan" – Government of India initiative through the following events:

16.04.2021	Special Cleanness Drive
19.04.2021	Swach Pledge Taking Ceremony
20.04.2021	Special Cleanness Drive
21.04.2021	Sanitization Programme
22.04.2021	Sapling Plantation
23.04.2021	Online quiz Competition
26.04.2021	Painting Competition
27.04.2021	Workshop on "Kits from Waste"
28.04.2021	Slogan Writing Competition
29.04.2021	Popular Lecture

Celebration of 75 years of India`s Independence (Azadi Ka Amrit Mahotsav)

As a part of yearlong celebration of 75 years of India`s Independence (Azadi Ka Amrit Mahotsav), District Science Centre, Purulia organized Online Essay Writing Competition on "75 years of India`s Independence" for te students on 21st April, 2021.

List of Popular Lectures:

Date	Topic	Lecturer
07.04.2021	Building a fairer, healthier World	Dr. Nayan Mukherjee, Renowned Surgeon Deban Mahato Sadar Hospital, Purulia
21.06.2021	Yoga for well-being	Shri Milan Dutta Eminent Yoga Expert, Purulia
11.07.2021	Gender Discrimination	Shri Vivekananda Sahoo, Coordinator Kajla Janakalyan Samiti, 24 pgs(s)
20.07.2021	Sun, Planets, Moon & Stars	DR. Debiprasad Duari, Director Research & Academic, M.P. Birla Institute of Fundamental Research, Kolkata

Date	Topic	Lecturer
12.08.2021	"Nobel for Discovery of Photoelectricity: A Historical Perspective	Dr. Manas Pratim Das Programme Executive All India Radio, Kolkata
13.08.2021	"Nobel Prize of Albert Einstein and Beyond"	Dr. Bhupati Ckkrabarti, Ex-HOD, Depterment of Physics, City College, Kolkata
21.08.2021	Science and Superstition	Dr. Nayan Mukherjee, Renowned Surgeon Deban Mahato Sadar Hospital, Purulia
16.09.2021	Relevance of Montreal Protocol in protection of climate	Dr. Makhanlal Nanda Goswami Department of Physics, Midnapore College, Paschim Medinipur
29.09.2021	Heart-Yesterday, today and tomorrow	DR. Kunal Sarkar, Eminent Cardiologist Medica Superspecialty Hospital, Kolkata
23.10.2021	"Common Chemistry Materials- A View"	Dr. Arati Mukhopadhyay, Ex-Teacher Howrah Jogesh Chandra Girls' School
26.11.2021	"Education policy in Indian Constitution"	Prof. Samirranjan Adhikari Department of Education S.K.B.U., Purulia
15.12.2021	Glimpses of Purulia	Dr. Subrata Raha HOD, Department of Botany S.K.B.U., Purulia
26.01.2022	Role of Manbhum in Indian Freedom Movement	Dr. Dayamay Roy, Teacher & Researcher Rangadih S.B. High School,Purulia
04.02.2022	Closed the care Gap	Dr. Sankar Kumar Nath, Ex-oncologist R.G. Kar Medical College, Kolkata
14.03.2022	Pi Day	Dr. Partha Karmakar Joint Director of Public Instruction and Advisor, West Bengal Central School Service Commision

Camps & Training Held

Online Science Camp

To enrich the students in the practical approach of science, online Science Camps were organized as follows

Date	Camp	No. of Students	No. of Projects
20th July – 22nd July, 2021	Geography and Basic Astronomy	7	9
	Mathematics	9	13
19th August to 21st August, 2021	Life Science	12	5
	Basics of Electronics	9	7
18th December to 20th December, 2021	Water – The source of Life	23	3
	Introduction to Arduino	22	3
27th January to 28th January, 2022	Folding and Unfolding of Mathematics	22	10

Teachers' Training Programme

A 3-day Teachers' Training Programme on hands-on demonstrations on Physics & Chemistry using TLM was organized at DSC, Purulia 14th March to 16th March, 2022. About 40 teachers from Sponsored Teacher's Training College attended this event. The objective of the training was to impart a new methodology of science teaching as well as low-cost science kit making.

Special Webinar

District Science Centre, Purulia celebrated 100 years of Albert Einstein's Nobel Prizing Winning from August 12 to 13, 2021 by organizing a webinar to create awareness among people as well as students. Director BITM, Shri V.S. Ramachandran inaugurated the programme.

On 12th August, a Popular Science Lecture was delivered by Dr Manas Pratim Das, Programme Executive, All India Radio, Kolkata on "Nobel for Discovery of Photoelectricity : A Historical Perspective".

On 13th August, Popular Science Lecture was delivered by Dr. Bhupati Chakrabarti, Ex-HOD, Determent of Physics, City College, Kolkata on "Nobel Prize of Albert Einstein and Beyond".

Bardhaman Science Centre

New Facilities:

Inauguration of Exhibition:

To mark the glorious 75 years of India's independence a panel exhibition titled "75 Years of Independence- India's Achievements in Science & Technology" was inaugurated on February 23, 2022. Shri Shridhar Pramanik, District Inspector of Schools, Secondary Education, Purba Bardhaman was present as chief guest and inaugurated the said exhibition. The exhibition was opened for visitors from February 23 to February 28, 2022.

Special Events:

Workshop on Hindi:

A one-day Hindi Workshop was conducted for the Staff members of this Centre on April 9, 2021. The said workshop was conducted by Shri Indradeo Mishra, Hindi Teacher, Purba Bardhaman. All the staff members of this centre participated in this workshop.

Celebration of World Earth Day:

Bardhaman Science Centre organized an on-line painting competition and online Quiz competition during the observation of World Earth Day on April 22, 2021. 50 students participated on the above competition. Digital Certificates were distributed to the winners.

Observation of International Museum Day:

International Museum Day was observed at Bardhaman Science Centre on May 18, 2021 where following events took place:

- a) Online Painting Competition; Topic: Visit to Museum
- b) Online Quiz Competition for all groups

50 students participated in each of those competitions. Digital certificates were issued to all the participants.

Celebration of International Day of Yoga:

International Day of Yoga was celebrated on May 21, 2021. The following online programmes were organized on the day for the students and common people in general.

- a) Live Telecast on Yoga Demonstration on You Tube Channel
- b) Online Quiz Competition on Yoga

A large no of students and general public participated in the above programmes.

Celebration of World Environment Day:

The following online programmes were organized for the students and common people in general on the occasion of World Environment Day on June 5, 2021.

Online Drawing Competition Topic "Green City"

Online Popular Science Lecture on "Ecosystem Restoration" by Dr. Naba Kumar Mondal, Professor Dept. of Environmental Science Burdwan University.

37 Participants took part in the Drawing Competition and 82 Participants attended the Popular Lecture.

Observation of Moon Landing Day:

Bardhaman Science Centre observed Moon Landing Day on July 20, 2021. Online Quiz Competition on 'Astronomy' was organised on the above day. 41 participants participated in the above programme.

Celebration of the Independence Day of India: An online Essay Writing competition was organized as part of celebration of the Independence Day of India on August 15, 2021. The topic of the essay was "Based on the Recent Performance of India in Tokyo Olympics 2020, How Do You See the Future of India in the Context of Sports?"

Celebrations of World Photography Day:

An online event on photography named “Click Nature” to celebrate World Photography Day on August 19, 2021. Participants from various parts of India participated in this event. The 10 selected photographs were displayed on Bardhaman Science Centre’s Facebook page. An online quiz competition on “Basics of Photography” was also organized on that day.

Celebrations of Hindi Divas:

Bardhaman Science Centre in collaboration with Bardhaman Hindi Jano Kalyan Manch jointly organized Hindi Divas programme on September 14, 2021 in which different programmes like online painting competition, Quiz, prize distribution programme etc were organized. Students from different schools participated in this programme. Shri Sreedhar Pramanik was present as the Chief Guest among other dignitaries in the above programme.

Celebration of Engineer’s Day:

Online painting competition on the topic “Science & Society” and online quiz competition on the topic “Engineering Physics” were organized as a part of observation of Engineer’s Day on September 15, 2021. Student from various parts of India participated in that programme.

Celebrations of Gandhi Jayanti:

Birth anniversary of Mahatma Gandhi was celebrated by through different on-site competitions and activities on October 2, 2021.

Observance of Vigilance Awareness Week:

Vigilance Awareness Week was observed from October 26, 2021 to November 1, 2021. The Integrity Pledge has been taken by all the staff members of Bardhaman Science Centre. An online essay writing competition on the topic “Self-Reliance with Integrity” was held on November 1, 2021 as a part of this observance.

Celebrations of National Unity Day:

Bardhaman Science Centre and Field Outreach Bureau Bardhaman Ministry of Information & Broadcasting Govt. of India jointly celebrated the National Unity Day on October 31, 2021. Online quiz competition on the topic “National Unity” was held as the part of the celebrations.

Observation International Science Centre & Science Museum Day:

International Science Centre & Science Museum Day was observed on November 10, 2021. Online Science Quiz on “Science Museums” was conducted on that day. 182 nos. students participated in the above Quiz Competition.

Observation of Children’s Day :

Children’s Day was observed on November 14, 2021 at Bardhaman Science Centre. Online painting competition for Junior & Senior Group on the topic “Future City” and Online Popular Lecture on the topic “Environment & students”, Online Quiz competition were organized.

Observation of Constitution Day:

Constitution Day was observed on November 26, 2021. Online quiz competition on the topic “Constitution of India” was conducted on the above day. Online Preamble reading along with Hon’ble President was conducted by the staff members of this Centre. Online Quiz competition was also organized on the above day.

Celebrations of National Mathematics Day:

National Mathematics Day as well as the birth anniversary of Srinivasa Ramanujan was celebrated by organizing different online activities on December 22, 2021. Floral tribute was given to Srinivasa Ramanujan. Online quiz competition on the topic “Basic Mathematics” and online essay writing competition on the topic “Life and Works of Ramanujan” were held as the parts of the activities.

Celebration of Anniversary Day:

Bardhaman Science Centre celebrated its 28th Anniversary by organizing different types of online

events on January 9, 2022. An online popular lecture on the topic “Empowering Women in Science” was held via Google Meet platform. Online quiz competition on the topic “Science for Mankind” and online painting competition on the topic “Bardhaman Science Centre” were held as a part of the celebration

Celebration of Republic Day:

The Republic Day was celebrated by organizing various online events on January 26, 2022. An online popular lecture was delivered on the topic “Role of Bengal in Indian Freedom Movement” by Dr. Indradeo Misra, Centre Hindi Superintendent, Hindi Teaching Scheme, Purba Bardhaman. Online quiz competition on the topic “Indian Freedom Movement” was held as a part of the celebration

Celebration of World Wetlands Day:

World Wetlands Day was celebrated by organizing different types of online events on February 2, 2022. Online quiz competition on the topic “The Wetlands of India” and online essay writing competition on the topic “East Kolkata Wetlands” were held as the parts of the celebration.

Hindi Workshop cum Meeting:

Bardhaman Science Centre conducted a one-day Hindi Workshop cum meeting for the Staff members on February 21, 2022. The said workshop was conducted by Shri Indradeo Mishra, Hindi Teacher, Purba Bardhaman.

Celebration of National Science Day:

Bardhaman Science Centre celebrated National Science Day by organizing various events on February 28, 2022. A Popular Science Lecture on “Life and Works of Sir C. V. Raman” was delivered by Shri Soumen Konar, Headmaster, Krishnapur High School. Sit & Draw competition on the topic “Science Fair” and Open House Quiz on the topic “Science in Everyday Life” were held as parts of the celebration. Prizes and merit certificates were distributed to the respective winners of the competitive events.

Innovation Hub Activities:

Workshop on New Age of Robotics:

An online workshop on “New Age of Robotics” was organized in the Innovation Hub of Bardhaman Science Centre involving Innovation hub members (girls’ students) on June 28, 2021. 42 students participated.

Workshop on Dengue Fever Awareness:

Bardhaman Science Centre conducted a one-day online workshop on “Dengue Fever Awareness” for the students and general people on December 24, 2021. The said workshop was conducted by Shri Soumendranath Chatterjee, Professor, Dept. of Zoology, The University of Burdwan. Many students and people participated in this workshop.

Meet the Scientists Programme:

Bardhaman Science Centre organized a one-day programme “Meet the Scientists” for the school students on March 16, 2022. Dr. Naba Kumar Mondal, Professor, Department of Zoology, University of Burdwan was present as chief guest in this programme. Students were exposed to the various facilities (Science Show, 3D Show, Gallery Exhibit Demonstrations, Science Park exhibits, Innovation Hub activity etc.) of this centre.

Collaborative Programme:

Celebration of National Unity Day:

Bardhaman Science Centre and Field Outreach Bureau Bardhaman Ministry of Information & Broadcasting Govt. of India jointly celebrated the National Unity Day on October 31, 2021. Online quiz competition on the topic “National Unity” was held as the part of the celebrations.

List of Popular Lectures:

Date	Topic	Lecturer	Mode
13.05.2021	COVID19 Vaccine: What is it, Why and how much urgent it is for us?	Shri Avijit Chakraborty Ex- Deputy Drug Controller, Govt. of West Bengal, Advisor in Drug Industry / Export Company (QCS Lab, Mumbai), Academic Committee Member, West Bengal Pharmacy Council	Online
05.06.2021	Ecosystem Restoration	Dr. Naba Kumar Mondal Professor Dept. of Environmental Science Burdwan University	Online
14.11.2021	Environment & Students	Shri Soumen Konar, Headmaster, Krishnapur High School	Online
09.01.2022	Empowering Women in Science	Satyaki Banerjee Teacher, Jirat Colony High School	Online
28.02.2022	Life and Works of Sir C. V. Raman	Shri Soumen Konar, Headmaster, Krishnapur High School	Online

North Bengal Science Centre, Siliguri

Honours and Awards:

Inauguration of Exhibition:

Shri Dhruvajyoti Chakraborty, a member student of Innovation Hub of North Bengal Science Centre had been selected for an INSPIRE Award of Rs. 10,000/- for the year 2021-22 for preparation of Science project/model and to participate in the District Level Exhibition & Project Competitions. Name of his innovative model was Farming Land Rover (FLR) - for Agricultural Use.

New Facilities:

New Science Show:

On 18th Aug 2021, a new Science Show named Fun with Dry Ice was launched for the students and teachers. The show gathered acclamation from the viewers.

Inauguration of New Exhibition on Exhibition “75 Years of Independence: India’s Achievements in the field of Science & Technology”:

An exhibition titled “75 Years of Independence: India’s Achievements in the field of Science & Technology” was inaugurated on February 23, 2022 by Shri Shrinivas Patil, IAS, SDO, Siliguri in the august presence of Dr. Samirendra Sarkar, Principal, Nakshalbari College & other dignitaries at North Bengal Science Centre, Siliguri.

Special Events:

Observance of Swachhta Pakhwada:

As part of observance of Swachhta Pakhwada from April 16 to 30, 2021, a Special Cleanliness Drive was undertaken by North Bengal Science Centre, Siliguri. As part of the fortnight-long cleanliness drives, was undertaken

The staff members of NBSC took Swachhta-pledge and participated actively in the Special Cleanliness Drive organised during the Swachhta Pakhwada.

As part of observance of Swachhta Pakhwada an online Workshop on the topic Waste to Wealth was organised on April 29, 2021 for the students

Celebration of International Day of Yoga:

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, 2021 by organizing online events as follows:

Demonstration-cum-Lecture on Yoga was organised virtually through Facebook page of NBSC. Shri Sudipta Kumar Jana, an eminent yoga expert of Siliguri conducted the online Demonstration-cum-Lecture session. Apart from staff members of NBSC, a good number of online visitors interacted during the Yoga session.

Online Quiz Competition on the topic Health & Nutrition was also arranged for the school students, through the Facebook page of NBSC.

Celebration of Hindi Week & Hindi Day:

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 September 14 -20, 2021. During this week various online competition and activities such as Hindi Vocabulary Competition, Hindi Quiz Competition and Hindi Workshop were organized for the staff members of the centre. Special Science Demonstration Lecture in Hindi language was also organised for the students and visitors. Online Hindi Workshop was organized where discussion was made on role of Hindi as Raj Bhasa. The role of Hindi as official language, its role in present scenario and how Hindi could be used effectively as official language had been discussed during the Workshop. Shri Vikram Kumar, Secretary, TOLIC, Siliguri conducted the workshop.

Celebration Rashtriya Ekta Diwas:

To commemorate the Birth Anniversary of Sardar Vallabhbhai Patel, Rashtriya Ekta Diwas was celebrated at North Bengal Science Centre (NBSC), Siliguri on October. 31, 2021 by organizing a host of activities like Pledge taking Ceremony, Visual Quiz on the topic Our India, etc involving schools students, teachers, general public & staff-members of NBSC. Film show on Sardar Vallabhbhai Patel was screened during the programme.

Observance of Vigilance Awareness Week:

Integrity Pledge taking Ceremony was organized on October 26, 2021 as part of observance of Vigilance Awareness Week at North Bengal Science Centre, Siliguri from October 26 to November 1, 2021. Slogan Writing Competition on the topic "Self Reliance with Integrity" was organised for the school students. Banners and Posters were displayed and news had been uploaded in the social media for public awareness.

Celebration of Constitution Day:

North Bengal Science Centre, Siliguri organized a host of activities on November 26, 2021 to commemorate this auspicious Day. The events organized were as follows:-

- i. Live Screening of Hon'ble President of India's Reading of the "Preamble to the Constitution".
All staff-members of this Centre joined the Hon'ble President in reading the Preamble.
- ii. Special onsite demonstration of the Exhibition - FATHER OF THE NATION: A DIGITAL TRIBUTE was arranged periodically.

Celebration of Independence Day:

North Bengal Science Centre celebrated 75th Independence Day by organizing a host of activities on August 15, 2021 starting with hoisting of the National Flag and singing the Rashtagaan. Centre Level Online Quiz competition on the topic Scientific Achievement of India in the past 75 Years was also organised on that day for the school students through Facebook page of NBSC.

Observance of Earth Day:

North Bengal Science Centre, Siliguri organized a host of events on April 22, 2022 to observe Earth Day-2021 to create mass environmental awareness. Events were as follows:

Sapling Plantation programme

Online Quiz Contest on "Earth and Environment" for the school students. A good number of entries (165) were received.

Online Presentation on "Save Our Planet" was arranged in the Facebook page of NBSC and appreciable numbers of responses were received from viewers.

Observance of International Day for Biological Diversity:

International Day for Biological Diversity - 2021 on May 22, 2021 was observed through social media platform.

In commensurate with the theme of IDB-2021, "We're part of the solution #ForNature", an Online Presentation on Indian Endangered Mammals: An Overview was arranged in the Facebook page of NBSC and overwhelming number of responses were received from viewers.

An Online Quiz Contest on "Biodiversity" was also arranged for the school students. A good number of entries (405) were received.

Observance of World Environment Day:

North Bengal Science Centre celebrated World Environment Day - 2021 on June 5, 2021 through social media platform.

In commensurate with the theme of World Environment Day -2021, an Online Essay Writing Competition, on the topic Ecosystem Restoration: Your Ideas, was arranged for the school students.

Online Green Environment Campaign – "Plant & Click #SaveNature" was also organized.

Celebration of International Day of Forests:

International Day of Forests was celebrated by organizing a host of activities on March 21, 2022. The day started with Sapling Plantation. Shri Biplab Roy, Eminent Environmentalist of Siliguri delivered an awareness lecture highlighting the role of students in saving Forests for sustainable production and consumption. Shri Biswajit Kundu, Education Officer of North Bengal Science Centre delivered a popular science lecture on the topic 'Medicinal Plants of Darjeeling District: An Overview'. An Open House Quiz contest was organised for the participating students.

Celebration of World Water Day:

World Water Day was celebrated by organizing a host of activities on March 22, 2022. At the beginning Shri Ritabrata Biswas, Project Co-ordinator of North Bengal Science Centre, Siliguri delivered the introductory lecture highlighting the importance of water conservation. On this occasion, a Multimedia Presentation on the topic "Water Conservation & Sanitation" was arranged for the students. An Open House Quiz contest was also organised for the participating students.

Innovation Hub Activity:

Innovation Hub of NBSC organised several Offline and Online activities during the year 2021-22 which are as follows:

Online STEM Workshop for Girl- students on Fun with Mathematics:

To develop technical knowledge and skills among Girl students towards present-day science & technology, Online STEM activities are being organised by Innovation of NBSC involving girl-students.

As part of the programme an Online STEM Workshop, exclusively for girls of class VI to Class- XII, on the topic Fun with Mathematics was organized by the Innovation Hub of NBSC on June 29, 2021. Total 35 students actively participated in the workshop.

Online STEM Workshop for Girl- students on Fun with Mathematics:

Online STEM Workshop on Mathematics for Girl-students (Kanyashree students) was organised jointly by the Innovation Hub North Bengal Science Centre, Siliguri and Paschim Banga Samagra Shiksha Mission, Coochbehar Educational District on August 11, 2021 from 11.30 am. In the workshop, students were engaged in gaining knowledge on Mathematics through virtual theoretical and practical sessions. Total 80 students from four schools actively participated in the workshop.

Online STEM Workshop on Basic Electronics:

To promote the idea of 'Aatma Nirbhar Bharat' and to develop technical knowledge and skill among school students towards present-day technology, a Online STEM Workshop on "Basic Electronics" was organized in the Innovation Hub of NBSC, Siliguri involving students of class XI to class XII from August 20 to 22, 2021.

Online Science & Innovation Festival:

Innovation Hub of North Bengal Science Centre organised Innvo-Fest -2022, an Online Science & Innovation Festival, from February 16 to 18, 2022. During the Festival, Online Scientific and Innovative Idea Competition, Science Quiz, Popular Science Lecture, STEM Workshop were arranged.

STEM Workshop – Computer Assembling & Troubleshooting:

Innovation Hub of North Bengal Science Centre organised STEM Workshop – Computer Assembling & Troubleshooting on November 14, 2021.

COVID 19 AWARENESS ACTIVITIES:

Webinar on Psychological Impacts of COVID-19 on Students: The Way Forward

As part of COVID-19 awareness programmes, North Bengal Science Centre organised a Webinar on the topic Psychological Impacts of COVID-19 on Students: The Way Forward on May 12, 2021. Dr.Nirmal Kumar Bera, Professor and HOD, Department of Psychiatry, North Bengal Medical

College & Hospital attended the webinar as an expert and delivered the lecture on topic.

Webinar on Psychological Impacts of COVID-19 on Students:

As part of COVID-19 awareness programmes, North Bengal Science Centre took part in organizing a Webinar on the topic Psychological Impacts of COVID-19 on Students on May 27, 2021 in association with Department of Commerce, Surya Sen Mahavidyalaya. Shri Ritabrata Biswas, Project Coordinator, NBSC, Siliguri was the key resource person, who delivered the lecture on the topic. Smt. Reema Sherpa Sarkar, Asst. Professor, Department of Commerce, Surya Sen Mahavidyalaya co-ordinated the programme. 394 students and faculties of Department of Commerce registered for the Webinar.

Webinar on Post - COVID Management: Dos & Don'ts:

As part of COVID-19 awareness programme, NBSC organized a Webinar on "Post-COVID Management: Dos & Don'ts" on 16th July from 4 pm. This webinar was attended by an expert panel of Doctors, which included –

Dr.Kaushik Bhattacharya, MS, FRCS(Glasg),FRCS(Edin), Specialist (Surgery), CAPFs Composite Hospital, BSF Kadamtala.

Dr.ParthaPratim Pan, MD, Professor and Head of the Department of Physical Medicine and Rehabilitation, North Bengal Medical College & Hospital.

Dr. Shantanu De, MD, Consultant Psychiatrist & Asstt. Prof. Department of Psychiatry

M.J.N. Medical College & Hospital, Cooch Behar

Collaborative Programme:

Observance of Southern Solstice:

North Bengal Science Centre, Siliguri in association with Sky Watchers' Association of North Bengal observed the day of Southern Solstice by organizing special activities related to astronomy on December 21, 2021.

Celebration of National Mathematics Day:

North Bengal Science Centre in association with Rajkishore Bose Mathematical Society, Siliguri celebrated National Mathematics Day on December 22, 2021 by organizing various activities related to Mathematics.

Celebration of International Day of Mathematics:

North Bengal Science Centre, Siliguri, in association with Association for Liberal Learning & Research (ALLR), Siliguri celebrated International Day of Mathematics on March 14, 2022 by organizing online activities.

Participation in Government Programme / Initiatives:

Programmes organised under Vigyan Sarvatra Pujyate:

North Bengal Science Centre (NBSC), Siliguri organised various programmes portraying 75 years of India's achievements in science and technology as part of 'Vigyan Sarvatra Pujyate'(VSP) from Feb. 22-28, 2022.

VSP is a week-long festival of Science Communication, Popularisation and its Extension (SCoPE) and was unveiled on Tuesday February 22, 2022.

The National Council of Science Museums under Ministry of Culture is an important partner of VSP and is working in collaboration with Vigyan Prasar to organise nation-wide commemorative programs. It is categorised into four themes- 'From the annals of the history of S&T'; 'Milestones of Modern S&T'; 'Swadeshi Paramparik Inventions and Innovations'; and 'Transforming India'. On this occasion, NBSC Siliguri organised multitude of creative, thought-provoking and engaging programs in hybrid (physical + online) mode following Covid-appropriate SOPs. The festival featured eminent researchers, scientists and innovators among others in a variety of lectures, exhibitions, expositions, science demonstrations, science activities, book fair, etc. to name a few. This week-long festival culminated on February 28, 2022, the National Science Day. The valedictory & award ceremony was chaired by Sh. Gautam Deb, Hon'ble Mayor, Siliguri Municipal Corporation in the august presence of

Prof. Subhas Ch. Roy, Dean, Faculty of Science, University of North Bengal, Dr. Suprakash Roy, eminent Educationist, Siliguri & other dignitaries.

Other programs and activities organised under Azadi Ka Amrit Mahotsav (AKAM)

Online Quiz competition on the topic Indian Freedom Movement:

Online Quiz competition on the topic Indian Freedom Movement was organised for the school students through Facebook page of NBSC on July 25, 2022.

Centre Level Online Quiz competition on the topic Scientific Achievement of India in the past 75 Years:

Centre Level Online Quiz competition on the topic Scientific Achievement of India in the past 75 Years was also organised on August 15, 2022 for the school students through Facebook page of NBSC.

Centre Level Online Slogan Writing Competition on the topic Self-reliant India, Prosperous India:

Centre Level Online Slogan Writing Competition on the topic Self-reliant India, Prosperous India was also organised on October 2, 2022 for the school students through Facebook page of NBSC

Vigyan Anwasha: An initiative to Connect Students with Scientists # Webinar Series -1

On August 17, 2021 at 2:00 pm a new Webinar Series “Vigyan Anwasha: An initiative to Connect Students with Scientists” was launched. The keynote address of the first episode of Vigyan Anwasha was delivered by Shri V. S. Ramachandran, Director, BITM, Kolkata. Eminent scientist Prof Asim K. Duttaroy, Faculty of Medicine, University of Oslo, Norway delivered the popular talk on the topic Intrinsic Health Defence and interacted with the participating students.

Vigyan Anwasha : An Initiative to Connect Students with Scientists # Webinar Series- 2

The second episode of the new Webinar Series Vigyan Anwasha : An Initiative to Connect Students with Scientists was aired on August 30, 2021 from 3:00 pm - onwards.

Prof. Punyasloke Bhadury, Head, Centre for Climate & Environmental Studies, Indian Institute of Science Education & Research (IISER) delivered the popular talk on the topic “Coastal Oceans in a changing Climate” and interacted with the participating students.

Vigyan Anwasha : An Initiative to Connect Students with Scientists # Webinar Series- 3

The third episode of the Webinar Series Vigyan Anwasha : An Initiative to Connect Students with Scientists was aired on September 16, 2021 from 3.00 pm - onwards.

Dr. Monojit Debnath, Additional Professor, Department of Human Genetics & Adjunct Faculty, Department of Clinical Neurosciences, National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore was the Guest Scientist in this and he delivered the lecture on the topic “Human Intelligence: A Genetic Affair?” and interacted with the participating students.

Vigyan Anwasha : An Initiative to Connect Students with Scientists # Webinar Series- 4

The fourth episode of Webinar Series “Vigyan Anwasha: An initiative to Connect Students with Scientists” was organised on that day from 3:00 pm - onwards. Dr. Jajati Kesari Nayak, Scientist, Dept. of Atomic Energy Variable Energy Cyclotron Centre (VECC), Kolkata delivered the lecture on the topic “Creating The Baby Universe In The Laboratory”.

Vigyan Sarvatra Pujiyate (Festival of SCoPE for ALL):

North Bengal Science Centre (NBSC), Siliguri organised various programmes portraying 75 years of India’s achievements in science and technology as part of ‘Vigyan Sarvatra Pujiyate’(VSP) from February 22-28, 2022. VSP is a week-long festival of Science Communication, Popularisation and its Extension (SCoPE) and was unveiled on Tuesday 22.02.2022. The celebrations is part of the Government of India’s year-long programme, Azadi Ka Amrit Mahotsav.

This event is jointly organized by DST, DBT, CSIR, MoES, DAE, DOS, ICMR, AICTE & DRDO under the leadership of the Office of the Principal Scientific Officer to the Govt. of India and the Ministry of Culture, Govt. of India.

List of Popular Lectures:

Date	Topic	Lecturer
12.05.2021	Psychological Impacts of Covid 19 on Students: The Way Forward	Dr. Nirmal Kumar Bera, Professor and HOD, Dept. of Psychiatry, North Bengal Medical College & Hospital
21.06.2021	Usefulness of Yoga	Shri Sudipta Kumar Jana, An Eminent Yoga Expert of Siliguri
17.08.2021	Intrinsic Health Defence	Prof Asim K. Duttaroy, Faculty of Medicine, University of Oslo, Norway
30.08.2021	Coastal Oceans in a Changing Climate	Prof. Punyasloke Bhadury, Head, Centre for Climate & Environmental Studies, Indian Institute of Science Education & Research (IISER), Kolkata
16.09.2021	“Human Intelligence: A Genetic Affair?”	Dr. Monojit Debnath, Additional Professor, Department of Human Genetics & Adjunct Faculty, Department of Clinical Neurosciences, National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore
28.09.2021	Creating The Baby Universe In The Laboratory	Dr. Jajati Kesari Nayak, Scientist, Dept. of Atomic Energy Variable Energy Cyclotron Centre (VECC), Kolkata
22.12.2021	Mathematics Beyond Books	Shri Swapanendu Nandi, Head Master, Haiderpara Buddha Bharati High School, Siliguri
18.02.2022	From the Annals of History of Science	By Dr. Ranadhir Chakraborty, Professor Department of Biotechnology University of North Bengal
24.02.2022	Milestones in Indian Modern S&T	Shri Debashish Sarkar Eminent Science Communicator and Secretary, Sky Watchers’ Association of North Bengal, Siliguri
24.02.2022	Biomedical Genomics in India: Strengthening its Pillars	Shri Moulinath Acharya, PhD Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal

Date	Topic	Lecturer
25.02.2022	Science, Technology & Innovation for Self-Reliant India	Dr. Sanjib Bhattacharya, Associate Professor-Deputy Director, UGC-Human Resource Development Centre, Adjunct Faculty, Department of Physics, University of North Bengal
26.02.2022	Science Literature & Science Communication- the Story in Bangla	Dr. Manas Pratim Das Programme Executive All India Radio, Kolkata
27.02.2022	Vaccine Development for the Future – The Indian Perspective	Dr. Saurav Jyoti Patgiri, M.D., Scientist-D ICMR-RMRC N.E.R., Dibrugarh
27.02.2022	Digital Health and Perspectives for Future in India	Dr. Kaustubh Bora, MD, Scientist-C; ICMR-RMRC N.E.R
28.02.2022	S&T Roadmap for Next 25 Years	Dr. Suprakash Roy, Teacher & Eminent Educationist, Siliguri

Camps, Training and Workshops:

Online STEM Workshop for Girl- students on Fun with Mathematics:

As part of the programme an Online STEM Workshop, exclusively for girls of class VI to Class- XII, on the topic Fun with Mathematics was organized by the Innovation Hub of NBSC on June 29, 2021. In the workshop, students were engaged in gaining knowledge on Mathematics through virtual theoretical and practical sessions. Total 35 students actively participated in the workshop.

Online STEM Workshop for Girl- students on Fun with Mathematics:

Online STEM Workshop on Mathematics for Girl-students (Kanyashree students) was organised jointly by the Innovation Hub North Bengal Science Centre, Siliguri and Paschim Banga Samagra Shiksha Mission, Coochbehar Educational District on August 11, 2021 from 11.30 am. Total 80 students from four schools actively participated in the workshop.

Teachers' Training Programme:

*An Online Teachers' Training Workshop was organised for the students of Siliguri B.Ed. College on February 9 & 10, 2022. During the workshop the trainee-teachers were engaged in different hands-on scientific activities, helpful for their classroom teaching for pedagogical development. The workshop was arranged through virtual platform. 19 trainee-teachers participated in the workshop and overwhelming responses had been received from the teachers.

*A Teachers' Training Workshop was organised for the students of Siliguri B.Ed. College on March 16, 2022. During the workshop the trainee-teachers were engaged in experimenting different hands-on scientific activities, helpful for their classroom teaching for pedagogical development. 13 trainee-teachers participated in the workshop and very good responses were received from the teachers.

Summer Vacation Science Camp:

* North Bengal Science Centre organised 4nos. Online Vacation Science Camps from June 14, 2021 to June 19, 2021 for school students. During the camps, the students were engaged in making projects in digital platforms. The subjects were Elemental 3D Designing and Basic Electronics. 44 students participated in the camps.

Online STEM Workshop on the Chemistry@Home :

Online STEM Workshop on the topic Chemistry@Home was organised by North Bengal Science

Centre, Siliguri from September 10 – 12, 2021. In the workshop, students were engaged in gaining knowledge on Chemistry through virtual theoretical and practical sessions using household materials. Total 39 students actively participated in the workshop.

Workshop on the topic Waste to Wealth:

Workshop on the topic Waste to Wealth was organised for the students on April 29, 2021.

Winter Science Camp on Basic Astronomy:

North Bengal Science Centre, Siliguri organized Winter Science Camp on Basic Astronomy from December 17 to 19, 2021 for school students. During the camp-days, the students were engaged in learning basic astronomy through interactive demonstrations and hands-on practical sessions. 25 students participated in the camp.

Summer Vacation Science Camp:

*North Bengal Science Centre organised 4nos. Online Vacation Science Camps from June 14, 2021 to June 19, 2021 for school students. During the camps, the students were engaged in making projects in digital platforms. The subjects were Elemental 3D Designing and Basic Electronics. 44 students participated in the camps.

Online Workshop: Drawing of Geometric Patterns:

North Bengal Science Centre conducted an Online Workshop: Drawing of Geometric Patterns on December 22, 2022.

Online STEM Workshop during Invo-Fest-2022:

On February 17, 2022, an online STEM Workshop was arranged as part of Invo-Fest -2022, an Online Science & Innovation Festival.

Online Workshop on Mathematics during Celebration of International Day of Mathematics:

North Bengal Science Centre conducted an Online Workshop: Fun with Mathematics on March 14, 2022 during Celebration of International Day of Mathematics. Approx. 90 students from different schools participated in the workshop.

Digha Science Centre & National Science Camp

New Facilities:

New Science Show:

To celebrate 75th Anniversary of Indian Independence a Panel Exhibition on 'India's Achievements in Science & Technology' was inaugurated by Dr. S Balakrishnan, Officer in Charge MARC, ZSI, Digha on 22nd February 2022 at Digha Science Centre.

Special Events:

Special Online Demonstration Programme:

Digha Science Centre has organized a 2-day long Special Online Demonstration Programme for the Students of "Durgapur Institute of Technology and Management" from 23/09/2021 to 24/09/2021. The topic of the demonstration was "Fascinating Facts" and Fun about 'Science in Daily Life'.

Special Health Check-Up and Awareness Camp:

A special Health Check-Up cum Awareness Camp was organized by Digha Science Centre at the Innovation Hub for all the Staff members of Digha Science Centre. Dr. Prasun Goswamy, Medical Officer (Community Medicine), Office of the Chief Medical Officer of Health, Purba Baurdwan, conducted the entire Camp and thoroughly diagnosed the patients.

Observation of Vigilance Awareness Week:

Digha Science Centre has organized a week long Special Programme from 26.10.2021 to 01.11.2021. On this occasion various activities like Online Quiz Competition, online Essay Writing Competition, Pledge Taking Ceremony etc. were organized for the Participants. All the staff members from DSC, Digha were participated in pledge taking programme and near about 10 students took part in Online Essay Writing Competition.

Special Outreach "Science Lecture cum Demonstration":

Two numbers of Special Outreach Science Demonstration Lectures were organized by Digha Science Centre at Nayaput Sudhir Kumar High School (H.S), Contai and the Kasbagola F.O.B Model High Madrasa (H.S),Egra, Purba Medinipur on 14.03.22 and 26.03.22 respectively.

Innovation Hub Activity:

Workshop - I

Innovation Hub of Digha Science Centre organized a 2-day workshop on "ERA OF APPLICATIONS" on April 28th & 29th, 2021 through digital platform. The aim of the workshop was to create a sense of interest among participants towards application development. After the completion of the workshop, participants were able to make small applications on their own.

Workshop - II

Innovation Hub of Digha Science Centre organized a 2-day workshop on "ERA OF APPLICATIONS" on 24th & 25th of May, 2021 through digital platform. The aim of the workshop was to impart basic knowledge about the emerging Python Language. It also helped to create a sense of interest among the participants towards coding.

Workshop - III

A 3D printing workshop conducted on 25th March, 2022 at DSC, Digha with the students of Innovation Hub. They were trained to draw and fabricate different type of models with the help of 3.D printers. Students from Innovation Hub, Digha Science Centre took part in this above mentioned programme.

Collaborative Programmes:

Inauguration of a Panel exhibition :

A Panel exhibition on “India’s Achievements in Science & Technology” to celebrate 75th Anniversary of Indian Independence a Panel Exhibition on ‘India’s Achievements in Science & Technology’ was inaugurated in collaboration with Vigyan Prasar on 22nd February 2022 at Digha Science Centre. Later on the Panel Exhibition was opened to the public.

Seminar on “Gandhi: The Man of Big Ideas and Innovations”:

A 2-day seminar programme on “Gandhi: The Man of Big Ideas and Innovations” was organized in collaboration with Nav-Bandhan (Burdwan NVM Alumni Welfare Association) on 2nd & 3rd October, 2021 at Digha Science Centre. The seminar was led by many external experts from Nav-Bandhan (Burdwan NVM Alumni Welfare Association) and experts also gave short speech on the above topic.

Participation in Government Programmes & Initiatives:

Hindi Pakhwada:

Digha Science Centre has organized a two-day long Hindi Workshop on 14 & 15.09.2021 to celebrate Hindi Pakhwada for the promotion of official language among the staff members. Popular Talk, Essay Writing, Extempore talk have been organized to commemorate the aforesaid event.

Observation of International Yoga Day:

International Yoga Day was observed at Digha Science Centre on 21st of June at Digha Science Centre. Various activities like Pranayam, Different types of Yoga posture, Anulom-Bilom etc have been practiced by the staff members of DSC, Digha.

Observation of Vigilance Awareness Week:

Digha Science Centre has organized a week long Special Programme from 26.10.2021 to 01.11.2021. On this occasion various activities like Online Quiz Competition, online Essay Writing Competition, Pledge Taking Ceremony etc. were organized for the participants.

Celebration of 73rd Republic Day of India:

73rd Republic Day of India was celebrated at Digha Science Centre on 26th January, 2022. To commemorate the above mentioned programme the National Flag was hoisted by PC, DSC, Digha in presence of all office staff and contractual staff members of DSC, Digha. Few local students sang the National Anthem to pay homage to that day.

List of Popular Lectures:

Date	Topic	Lecturer
19.04.2021	“Role of Constitution in protecting fundamental right of the people”.	Dr. S. N. Mondal, Associate Professor, Hoogly Mohsin Collage, Burdwan University.
22.04.2021	“Restore our Earth”.	Shri Bishnu Goswami, Senior Research Fellow, Associate Professor, University of Burdwan, West Bengal.
04.05.2021	“Rising Second Wave: Alertness towards COVID 19 Pandemic”.	Dr. Kalyan Banerjee, Oral and Maxillofacial Surgeon, Asansol Maxillofacial Clinic, West Bengal.
18.05.2021	“Future of Museum : Recover and Re-imagine”.	Dr Piyasi Bharsa Assistant Professor, Department of Museology Calcutta University, West Bengal

Date	Topic	Lecturer
05.06.2021	“Rejuvenate Ecosystem Dynamics”.	Dr. Ashwini Kumar Srivastava Former Scientist G, Birbal Sahni Institute of Paleobotany , Professoor & HOD, Bioscience Integral University Lucknow.
07.07.2021	“Creative Work IP Protection”.	Dr Sashinath Mandal, Associate Professor, Hoogly Mohsin College.
07.07.2021	“Basics Intellectual Property Rights”.	Dr Amiya Kumar Kalidaha Senior Scientific Officer, Dept. of Science Technology & Bio-technology, Govt. of WB.
08.07.2021	“How to file Patent”.	Mr Amit Patel, Managing Director, PATectual.
14.09.2021	“Hindi Me Vigyan Chetana” .	Dr. Nataraj Gupta, Assistant Prof., Nakshalbari College, NBU, Darjeeling
15.09.2021	“Hindi ke Bikash Me Bengal ka Bhumika” .	Dr. Vijayanand Ex-Director, IGNOU, Prayagraj.
15.09.2021	“Rajbhasa Hindi ka Karyalay Proyag”.	Dr. Mankeswar Rajak Associate Professor, Mankar College, BU, Burdwan.
04.10.2021	“The role of Snakes in Human Life and Livelihood”.	Shri Debasis Dhar, Education Officer, Digha Science Centre.
14.11.2021	“Plants – our friends forever”.	Dr. Chandan Kumar Maity Headmaster, Bajkul Balaichandra Vidyapith.
14.12.2021	”Fuel of the Future: Prospects and Environmental Connection”.	Dr Sabyasachi Sarcar, Vice Principal, Durgapur Institute of Technology and Management and Particle Physicist, CERN.
22.12.2021	“Vedic Mathematics and Increasing Interest in Mathematics by Fun Method”.	Shri Biswarup Das, Education Officer, Digha Science Centre.
28.02.2022	“বিদ্যাসাগর, অক্ষয় কুমার দত্ত, রবীন্দ্রনাথের বিজ্ঞান চর্চা”	Dr Sankar Nath, Cancer Specialist, Rtd. Doctor, Dept. of Oncology, R. G. Kar Medical College & Eminent Scientist.
22.03.2022	“Potable Water: Subject of Priority & Reason of Concern”.	Shri Debasis Dhar, Education Officer, Digha Science Centre.

Camps, Training and Workshops:

Workshop on Introduction to Artificial Intelligence:

This workshop was conducted on 29th June, 2021, through online mode for Girls/women participants. The aim of the workshop was to create a sense of interest among participants towards Artificial Intelligence and STEM education. The workshop was conducted on Google meet online platform. While conducting the Workshops, feedback from the participants was taken regarding their choice of career, motivation factor to pursue STEM education and the challenges they face in such endeavors.

Workshop on “ERA OF APPLICATIONS”:

Innovation Hub of Digha Science Centre organized a two-day workshop on “ERA OF APPLICATIONS” on April 28th & 29th, 2021 through digital platform. The aim of the workshop was to create a sense of interest among participants towards application development. After the completion of the workshop, participants were able to make small applications on their own.

Workshop on “ERA OF APPLICATIONS”:

Innovation Hub of Digha Science Centre organized a two-day workshop on “ERA OF APPLICATIONS” on 24th & 25th of May, 2021 through digital platform. The aim of the workshop was to impart basic knowledge about the emerging Python Language. It also helped to create a sense of interest among the participants towards coding.

Students' Science Exposure Camp:

Digha Science Centre has organized a three-day long Students' Science Exposure Camp from 12.11.2021 to 14.11.2021 for school students. In this three day camp, various activities like preparing Small Learning Kits, Collecting and Identifying Plants and small insects, Surveying marine specimen at the seashore etc have been performed under the guidance of experts.

A Daylong Hindi Workshop:

A Daylong Hindi Workshop has been organized by Digha Science Centre on 26th February 2022 to promote Rajbhasha among everyone. The programme was inaugurated with lighting a lamp by Shri Jagadish Ram Pouri, Joint Director Rajbhasha Vibhag, Ministry of Education, Govt. of India, Dr Rajiv Kumar Rawat, Senior Hindi Officer, IIT, Kharagpur & Dr. S. Balakrishnan, Officer in Charge MARC, ZSI, Digha. A Lecture was delivered by Dr Rawat on Modern Application of “आधुनिक हिंदी कंप्यूटिंग अनुप्रयोग एवं राजभाषा लक्ष्य की प्राप्ति” for the Office staff members.

Workshop on "Make your own Weather Station”:

Workshop on "Make your own Weather Station" was organized on 23rd of March, 2022 at DSC Digha. A Hands on Workshop has been organized for school students to fabricate different kits like Balloon Barometer, Sun Dial, Rain gauge, Pocket Thermometer etc followed by with related Open House Quiz.

Webinars

Webinar on “Role of Constitution in protecting fundamental right of the people”:

Commemoration of 75 years of Independence “AZADI KA AMRIT MAHOTSAV” was observed at Digha Science Centre on 19th of April on digital platform. An online webinar on “Role of Constitution in protecting fundamental right of the people” was organized by Digha Science Centre which has been broadcasted through Face book and Stream yard on 19th April, 2021. The lecture was given by Dr. S. N. Mondal, Associate Professor, Hoogly Mohsin Collage, West Bengal, The reach of the programme is around 2147 people till date.

Webinar on “Intellectual Property Rights”:

A two days online webinar on “Intellectual Property Rights” has been organized by Digha Science Centre on Face book from 7th of July to 8th of July, 2021. The lectures were given by many eminent Educationists and Scientists on various topics. The lectures were given by Dr Sashinath Mandal, Associate Professor, Hoogly Mohsin College, Dr Amiya Kumar Kalidaha, Senior Scientific Officer, Dept. of Science Technology & Bio-technology, Govt. of WB and Mr Amit Patel, Managing Director, PATectual and the reach of the programme is 790 till date.

List of Commemorative Days observed by BITM, Kolkata and it's Satellite Units

- Earth Day – 22nd April, 2021
- Astronomy Day – 2nd May, 2021
- International Museum Day – 18th May, 2021
- Biodiversity Day – 22nd May, 2021
- World Environment Day – 5th June, 2021
- International Day of Yoga – 21st June, 2021
- World Population Day – 11th July, 2021
- Moon Landing Day – 20th July, 2021
- World Nature Conservation Day – 28th July, 2021
- Independence Day – 15th August, 2021
- World Mosquito Day – 20th August, 2021
- Hindi day – 14th September, 2021
- World Ozone Day – 16th September, 2021
- World Rivers Day – 26th September, 2021
- International Day of Scientific Culture – 28th September, 2021
- World Heart Day – 29th September, 2021
- World Sight Day – 8th October, 2021
- World Food Day – 16th October, 2021
- Rashtriya Ekta Diwas – 31st October, 2021
- International Science Centre & Science Museums Day – 10th November, 2021
- Children Day – 14th November, 2021
- Constitution Day – 26th November, 2021
- World Television Day – 26th November, 2021
- Energy Conservation Day – 14th December, 2021
- National Mathematics Day – 22nd December, 2021
- National Youth Day – 12th January, 2022
- World Cancer Day – 4th February, 2022
- National Science Day – 28th February, 2022
- World Forestry Day – 21st March, 2022
- World Water Day – 22nd March, 2022
- World Meteorological Day – 23rd March, 2022

Special observations

- Museum / Centres' Anniversary Day
- BITM – 2nd May, 2021
- SSC Patna – 14th April, 2021
- DSC, Purulia – 15th December, 2021
- Bardhaman Science Centre – 9th January, 2021
- NBSC, Siliguri – 17th August, 2021
- Digha Science Centre – 31st August, 2021
- Celebration of Azadi ka Amrit Mahotsav
- Celebration of Vigyan Sarvatra Pujyate
- Celebration of Swachhta Pakhwada
- Observance of Vigilance Awareness Week
- Bihar Kesari Shri Babu's 134th Birth Anniversary - 21st October, 2021 (only by SSC Patna)

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 2021-22

List of Exhibit Developed



Visitors to Museum / Centre:

	BITM, Kolkata	SSC, Patna	DSC, Purulia	Bardham an Science Centre	NBSC, Siliguri	Digha Science Centre
School Group	81	372	09	10	56	32
Students	3,818	13,008	378	799	3,250	2,003
Visitors in Spl. Prog.	3,294	16205	2,2885	8,202	8,784	798
General Visitor	39,059	1,51,775	85,804	75,231	1,06,937	2,20,608
In-house Visitor	46,171	1,80,988	1,09,067	84,232	1,18,971	2,23,409
Outreach Visitor including Visitors in MSE	26,150	2,25,000	Nil	1,000	Nil	540
Total Visitors	72,321	4,05,988	1,09,067	85,232	1,18,971	2,23,949
Visitor Since inauguration	1,28,21,761	1,12,30,687	90,38,988	48,62,884	49,65,223	71,56,701



Science Demonstration Lecture:

Museum / Centre	No. of Lectures held in Museum	No. of Students in Museum	No. of Lectures held outside	No. of Students outside
BITM Kolkata	81	1,232	-	-
SSC, Patna	34	2,380	-	-
DSC, Purulia	8	378	-	-
Bardhaman Sc. Centre	18	799	1	200
NBSC, Siliguri	15	845	-	-
Digha Sc. Centre	5	449	4	540



Mobile Science Exhibition:

Museum / Centre	Theme of the Exhibition	No. of sites	No. of Exbhn. days	No. of Visitors in Exbhn.	No. of Film Shows	No. of Visitors in Film Shows	Km. Travelled
BITM Kolkata	Heat & Temperature Mathematics Machines in Everyday Life	1	3	8,000	-	-	65
SSC, Patna	Popular Science Food & Health Machines in Everyday Life	-	-	-	-	-	-
DSC, Purulia	Popular Science Measurement Food & Health	-	-	-	-	-	-
Bardhaman Sc. Centre	Fun Science Measurement	1	2	800	1	200	272
NBSC, Siliguri	Hands on Science Machines in Everyday Life	-	-	-	-	-	-
Digha Sc. Centre	Water – Daily Life Chemistry	-	-	-	-	-	-



Science Education Shows / Public Demonstrations:

	BITM Kolkata	SSC, Patna	DSC, Purulia	Bardham an Sc. Centre	NBSC, Siliguri	Digha Sc. Centre
Digital Planetarium						
No. of Shows	-	796	-	-	582	984
Visitors	-	17856	-	-	10538	24250
Taramandal						
No. of Shows	-	-	-	-	-	-
Visitors	-	-	-	-	-	-
Sky Observation						
No. of Programmes	11	48	39	27	40	13
Visitors	1,300	4,260	860	810	2,048	951
Science Quiz						
Contests	18	31	27	32	20	9
Participants	9,009	1,338	954	1,440	1,763	316
Visitors	375				260	338
Popular Lecture						
No. of Lectures	15	14	20	8	16	17
Audience	5,100	3,538	1,265	1,260	6,274	13,051
Science Shows: Science Magic & Miracle / Super Cool Bodies / Surprising Chemical Reactions/ Fun Science / Egg-cellent / Fire-Y-Tale / Balls, Balloons & Bubbles						
No. of Lectures	165	82	35	203	117	123
Audience	12,413	3,116	294	1,827	2,326	5,321
3D Shows						
No. of Shows	599	802	308	839	699	1348
Audience	14,114	28,070	3,603	10,068	13,349	34,995

Others Shows:

	No. of Programmes	No. of Audience
BITM Kolkata:		
Underground Coal Mine	31	1,459
ChromaKey Show in TV Studio	105	1,561
Show in Spark Theatre	87	4,072
Fun Mathematics Demonstration	15	900
SSC, Patna:		
Science on a Sphere	106	3,710
DSC, Purulia:		
Show in Prehistoric Life Park	15	Free for all visitors



Creative Ability Centre / Vacation Science Camps / Training:

	BITM, Kolkata	SSC Patna	DSC Purulia	Bardham an Sc. Centre	NBSC Siliguri	Digha Sc. Centre
Creative Ability Centre						
Projects Completed		-	55		9	10
No. of Students		-	104		14	41
Vacation Science Camps						
No. of Camps	6	4	7	4	4	1
Projects Completed	47	1081	55	5	132	5
No. of Students	267	116	104	32	44	19
Teachers' Training Programme						
No. of Programmes	1	1	1	-	2	-
No. of Teachers	12	39	40	-	32	
No. of Teaching Aids Developed	60	78	120	-	128	-
Computer Training Programme						
No. of Programmes	-	-	-	-	-	-
No. of Trainees	-	-	-	-	-	-



Science Seminar:

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

Museum / Centre	Date	Level	No. of Schools	No. of Participants	Audience
BITM Kolkata	-	-	-	-	-
SSC, Patna	-	-	-	-	-
DSC, Purulia	-	-	-	-	-
Bardhaman Sc. Centre	-	-	-	-	-
NBSC, Siliguri	-	-	-	-	-
Digha Sc. Centre	-	-	-	-	-



Science Fair

Museum / Centre	Date	Level	No. of Schools	No. of Participants	Audience
BITM Kolkata	-	-	-	-	-
SSC, Patna	-	-	-	-	-
DSC, Purulia	-	-	-	-	-
Bardhaman Sc. Centre	-	-	-	-	-
NBSC, Siliguri	-	-	-	-	-
Digha Sc. Centre	-	-	-	-	-

Science Seminar & Science Fair could not be organised due to the COVID-19 pandemic



Exhibit Development for BITM & its units during the year 2021-22

Particulars	BITM, Kolkata	SSC, Patna	NBSC, Siliguri	SC, Bardhaman	DSC, Purulia	DSC, Digha
Gallery Exhibits	79 nos.	39 nos.	8 nos.	1 no.	30 nos.	30 nos.
Duplicate Exhibits	-	-	-	-	-	-
Park Exhibits	2 nos.	-	-	-	-	1 no.
MSE Exhibits	-	-	-	-	-	-
Taramandal	-	-	-	-	-	-
Kits / Aids	-	-	-	-	-	-
Duplicate Kits / Aids	-	-	-	-	-	-
Temporary Exhibits	-	-	-	-	-	-
Total	81 nos.	39 nos.	8 nos.	1 no.	30 nos.	31 nos.

List of Exhibits Developed during 2021-22 by BITM, Kolkata

Gallery Exhibit: Motive Power Gallery:

1	Minimizing Muscle Power		Exhibition on "75 Years of Independence - India's Achievement in Science & Technology" (2 sets – 60 nos.)
2	Cottage Industry	1	Heritage of India – 2 panels
3	Making Steam Work	2	Heavy Industry
4	The Machine Age Begins	3	Nuclear Power – 2 panels
5	Harbinger of Industrial Revolution	4	Biotechnology – 2 panels
		5	Astronomy
	Gallery Exhibit : SRSC, Almora	6	Chemical Industry
1	Rising Arc	7	Climate Change Research
2	Visualising Sound	8	Vaccination
		9	Human Resource in Science & Technology
		10	Information Technology – 4 panels
	Science Park Exhibit: SRSC, Almora	11	Milestones – 2 panels
1	Is-Is Speaks	12	Oceanography – 2 panels
2	Echo Tube	13	Space Technology – 7 panels

		1	Transport – 2 panels
	Gallery Exhibit : Aryabhata Vigyan Kendra, Ambala	2	Unsung Heroes
1	Musical Tube		
2	Rising Arc		
			SSC, Patna
	Gallery Exhibit : RSC, Chalakuddy		Gallery Exhibit : Ocean Gallery
1	Digital Canvas	1	Plastic Pollution
2	Magic Floor	2	Life in the Ocean
3	Kathakali	3	Light in the Ocean
		4	Sea Lions
	Gallery Exhibit : SRSC, Jaipur	5	Oceans of the World
1	Grand Shuttle – 2 nos	6	Mysteries of Ocean
2	Gallery Exhibit : Popular Science Gallery of NBSC, Siliguri	7	Constituents of Ocean
3	Floating Disc	8	Pressure in Ocean
		9	Sonar

	Exhibition on “75 Years of Independence - India’s Achievement in Science & Technology”		DSC, Bardhaman : Gallery Exhibit
1	Heritage of India – 2 panels	1	Augmented Reality
2	Heavy Industry		
3	Nuclear Power – 2 panels		DSC, Purulia
4	Biotechnology – 2 panels		Exhibition on “75 Years of Independence - India’s Achievement in Science & Technology”
5	Astronomy	1	Heritage of India – 2 panels
6	Chemical Industry	2	Heavy Industry
7	Climate Change Research	3	Nuclear Power – 2 panels
8	Vaccination	4	Biotechnology – 2 panels
9	Human Resource in Science & Technology	5	Astronomy
10	Information Technology – 4 panels	6	Chemical Industry
11	Milestones – 2 panels	7	Climate Change Research
12	Oceanography – 2 panels	8	Vaccination
13	Space Technology – 7 panels	9	Human Resource in Science & Technology
14	Transport – 2 panels	10	Information Technology – 4 panels
15	Unsung Heroes	11	Milestones – 2 panels

		12	Oceanography - 2 panels
	NBSC, Siliguri : Gallery Exhibit	13	Space Technology - 7 panels
1	Transfer of Momentum	14	Transport - 2 panels
2	Fun Mirror	15	Unsung Heroes
3	Jumping Disc		
4	Visualizing Sound		
5	Grand Shuttle		
6	Music in the Air		
7	Acrobatic Stick		
8	Head on a Platter		

	DSC, Digha		
	Exhibition on "75 Years of Independence - India's Achievement in Science & Technology"		
1	Heritage of India – 2 panels		
2	Heavy Industry		
3	Nuclear Power – 2 panels		
4	Nuclear Power – 2 panels		
5	Magic Astronomy Floor		
6	Chemical Industry		
7	Climate Change Research		
8	Vaccination		
9	Human Resource in Science & Technology		
10	Information Technology – 4 panels		
11	Milestones – 2 panels		
12	Oceanography – 2 panels		
13	Space Technology – 7 panels		
14	Transport – 2 panels		
15	Unsung Heroes		
	Science Park Exhibit		
1	Open Air Indian Fresh Water Biotope		

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	6	55	39	100
SSC, Patna	2	11	7	20
DSC, Digha	1	9	4	14
DSC, Purulia	0	6	2	08
NBSC, Siliguri	1	8	5	14
SC, Burdwan	0	8	5	13
TOTAL				171

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	Arup Chakraborty	Dy.Co.FA	30.04.2021	Retirement
BITM, Kolkata	Ujjal Chakraborty	Section Officer	30.04.2021	Retirement
BITM, Kolkata	Sk. Mahabat Ali	Technician 'G'	31.05.2021	Retirement
BITM, Kolkata	T. K. Morduney	Technician 'G'	31.08.2021	Retirement
BITM, Kolkata	Prabir Kr. Sarker	Technician 'G'	30.11.2021	Retirement
BITM, Kolkata	D. Mukherjee	Education Officer	31.01.2022	Retirement
BITM, Kolkata	Swapan Kumar Roy	Exhibition Officer	31.01.2022	Retirement
DSC, Digha	P.K. Tripathi	Technician 'F'	31.03.2022	Retirement
SSC, Patna	Lalruatfela Renthlei	Curator 'B'	15.05.2021	Resigned
BITM, Kolkata	Susmita Saha	O. A. Gr. III	29.10.2021	Resigned
BITM, Kolkata	Sohom Banerjee	O. A. Gr. III	05.02.2022	Resigned

Appointment:

Museum/Centre	Name Shri/ Smt.	Designation	Initial Appointment
DSC, Digha	Bhaskar Adak	Technician 'A'	30.04.2021
NBSC, Siliguri	Avijit Sil	Technician 'A'	30.04.2021
SSC, Patna	Aaditya Kumar	Technician 'A'	31.05.2021
SC, Bardhaman	Anjan Mondal	Education Assistant 'A'	31.08.2021
BITM, Kolkata	Alpana Ghosh	Technician 'A'	30.11.2021
BITM, Kolkata	Pritam Maity	Technician 'A'	31.01.2022
BITM, Kolkata	Bishal Manna	Technician 'A'	31.01.2022
DSC, Purulia	Chandan Kumar	O. A. Gr. III	31.03.2022
SC, Bardhaman	Sumit Das	O. A. Gr. III	15.05.2021
BITM, Kolkata	Rakesh Mazumder	Curator 'B'	29.10.2021
SSC, Patna	Deepak Prakash	Jr. Steno	05.02.2022

Transfer:

Museum/Centre	Name Shri/ Smt.	Transfer from	Transfer to	Date of Transfer/ Resignation
BITM, Kolkata	Debasish Halder	NBSC, Siliguri	BITM, Kolkata	14.04.2021 (AN)
Science City, Kolkata	Nanda Dulal Das	SSC, Patna	Science City, Kolkata	30.04.2021 (AN)
BITM, Kolkata	Shyaman Saha	NBSC, Siliguri	BITM, Kolkata	17.09.2021 (AN)
NCSM Hqrs.	Ram Niwash Singh	SSC, Patna	NCSM, Hqrs.	04.02.2022 (AN)
NSC, Mumbai	Anindita Mondal	BITM, Kolkata	NSC, Mumbai	11.02.2022 (AN)
CRTL, Kolkata	Biswajit Pramanick	BITM, Kolkata	CRTL, Kolkata	31.03.2022 (AN)

Promotion:

Museum/ Centre (1)	Name Shri/ Smt.(2)	Designation before promotion	Designation after promotion/ upgradation	Date of promotion/ up gradation
DSC, Purulia	Dhrubajyoti Chattopadhyay	Education Officer 'C'	Education Officer 'D'	01.04.2021
BITM, Kolkata	Swapan Kr. Roy	Exhibition Officer 'B'	Exhibition Officer 'C'	19.03.2021
BITM, Kolkata	Debasish Halder	Technician 'B'	Technician 'C'	06.04.2021
BITM, Kolkata	D. Mukherjee	Education Officer 'C'	Education Officer 'D'	19.03.2021
BITM, Kolkata	Kanishka Chakraborty	Education Officer 'C'	Education Officer 'D'	19.03.2021
NBSC, Siliguri	Ritabrata Biswas	Curator 'C'	Curator 'D'	19.03.2021
BITM, Kolkata	Amit Raj	Technician 'B'	Technician 'C'	15.04.2021
BITM, Kolkata	Arun Halder	Technician 'B'	Technician 'C'	18.04.2021
BITM, Kolkata	Ajay Biswas	SMO	SSMO	01.05.2021
BITM, Kolkata	Shyamal Saha	O. A. Gr. II	O. A. Gr. I	20.09.2021
BITM, Kolkata	Dipankar Pal	O. A. Gr. III	O. A. Gr. II	22.11.2021
DSC, Purulia	Suman Karmakar	Education Assistant 'B'	Education Officer 'A'	15.12.2021
BITM, Kolkata	Binay Kr. Jana	Technician 'A'	Technician 'B'	15.12.2022
BITM, Kolkata	Ujjwal Das	Technician 'E'	Technician 'F'	21.12.2021
SC, Bardhaman	Arun Chandra Halder	Technician 'E'	Technician 'F'	01.01.2022
BITM, Kolkata	Sujoy Banerjee	O. A. Gr. III	O. A. Gr. II	14.01.2022
BITM, Kolkata	Manmatha Naik	Technician 'E'	Technician 'F'	10.02.2022
SSC, Patna	Vijay Kr. Sharma	Technician 'B'	Technician 'C'	17.02.2022
BITM, Kolkata	Jayanta Kr. Patra	Cataloguer 'C'	Cataloguer 'E'	07.03.2022
BITM, Kolkata	Abhijit Bala	Curator 'B'	Curator 'C'	15.03.2022
BITM, Kolkata	Sreenu Appikonda	Curator 'C'	Curator 'D'	15.03.2022
BITM, Kolkata	Joydev Maity	Technician 'F'	Technician 'G'	26.03.2022

MACP:

Museum/Centre	Name & Designation Shri/ Smt.	Date of Up gradation
BSC, Bardhaman	Biswajit Pundit, O. A. Gr. II (upgraded)	01.06.2021
BITM, Kolkata	Tapas Ghosh, O. A. Gr. II (upgraded)	04.07.2021
SSC, Patna	Ram Niwash Singh, O. A. Gr. III (upgraded)	12.09.2021
BITM, Kolkata	Asish Dutta, O. A. Gr. I (upgraded)	24.02.2022

Expenditure (2021-22) 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	1364.85	128.31	65.67	101.5	104.81	118.71	1883.85
GIA General	1206.69	74.08	37.61	44.26	56.16	52.46	1471.26
Gross Exp.	2571.54	202.39	103.28	145.76	160.97	171.17	3355.11
Receipt							
Net Expenditure (A - B)	2509.14	144.83	88.81	127.04	90.30	136.73	3096.85
GIA-CCA Gross Expenditure	25.53	7.59	9.19	8.22	19.44	14.16	84.13

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	2597.07	209.98	112.47	153.98	180.41	185.33	3439.24

Expenditure (2021-22) 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	13.28	9.38	9.60	4.47	6.25	5.06	48.04

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:

<p>1. Prof. Sibaji Raha Chairman Former Director, Department of Physics Bose Institute, Unified Academic Campus, EN 80, Sector V, Bidhan Nagar</p>	<p>8. The Director (Museums) Ex-officio Member Ministry of Culture, Govt. of India (Not below the rank of Deputy Secretary) 323-C Wing, Shastri Bhawan Dr. Rajendra Prasad Road, New Delhi - 110 015</p>
<p>2. Prof. Rajib Bandyopadhyay Member 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</p>	<p>9. Shri A. D. Choudhury Ex-officio Member Director General, National Council of Science Museums, 33, Block - GN, Sector - V Bidhan Nagar Kolkata - 700 091</p>
<p>3. Dr. Bhupati Chakraborty Member Former Professor, Dept. of Physics, City College General Secretary, Indian Association of Physics Teachers (IAPT)23 Imbrahimpur Road, Jadavpur Kolkata - 700 032</p>	<p>10. Shri V S Ramachandran Ex-officio Member Director, Birla Industrial & Technological Museum 19A, Gurusaday Road, Kolkata - 700 019</p>
<p>4. Dr. Jayanta Sengupta Member Secretary & Curator Victoria Memorial Hall 1, Queens Way, Kolkata - 700 071</p>	<p>11. Shri Rajib Nath Member Curator, Birla Industrial & Technological Museum 19A, Gurusaday Road, Kolkata - 700 019</p>
<p>5. Mrs. Rupkatha Sarkar Member Principal, La Martiniere for Girls 14, Rowdon Street, Kolkata - 700 017</p>	<p>12. Shri Amitabh, Member Project Coordinator Shrikrishna Science Centre, Chaju Bagh, West Gandhi Maidan</p>
<p>6. Shri Vinay K. Goenka Member Executive Chairman, Warren Tea Ltd. Suvira House, 4B, Hungerford Street, Kolkata - 700 017</p>	<p>13. Shri Subhashis Paul Non - member Secretary Dy. Controller of Administration, Birla Industrial & Technological Museum 19A, Gurusaday Road, Kolkata - 700 019.</p>
<p>7. The Secretary or his nominee Member Dept. of School Education, Govt. of West Bengal Bikash Bhavan, 5th & 6th floor DF Block, Sector 1, Salt Lake City, Kolkata - 700 091</p>	

Planning & Programming Committee of BITM	Building Committee of BITM
1. Dr. Bhupati Chakraborty Chairman Former Professor, Dept. of Physics, City College, General Secretary, Indian Association of Physics Teachers (IAPT)23, Imbrahimpur Road, Jadavpur Kolkata-700032	1. Shri S. Roy Chaudhury, Chairman Former Chief Architect CPWD, 83, K P Ray Lane Kolkatta - 700033
2. Principal, Member Ashok Hall Girls' Higher Secondary School 5A, Sarat Bose Road Kolkata – 700 020	2. Shri Anup Kumar Ghosh, Member Director General of Operation, KMDA (Retd.) Flat No. A-2, 2nd Floor, Tulip Apartmen t 282, Parnasree Pally, Kolkata – 700 060
3. Dr. Gautam Majumdar, Member Professor, Mechanical Engineering Dept, Jadavpur University, Kolkata – 700 032	3. Dr. Bhaskar Sengupta, Member Chief University Engineer, Rabindra Bharati University, Emerald Bower Campus, 56A, B. T. Road, Kolkata – 700 050
4. Director General or his nominee, Member National Council of Science Museums 33, Block – GN, Sector – V, Bidhan Nagar, Kolkata – 700091	4. Shri V S Ramachandran Ex-officioMember Director, Birla Industrial & Technological Museum, 19A, Gurusaday Road Kolkata – 700 019
5. Commissioner, Member Directorate of School Education, Govt. of West Bengal, 7th floor, DF Block, Sector-1, Bikash Bhawan, Salt Lake Kolkata – 700091	5. Shri G. K. Mahapatra, Ex-Officio Member Chief Engineer, NCSM 33, Block – GN, Sector – V, Bidhan Nagar, Salt Lake City, Kolkata – 700091
6. Director, Member Directorate of Madrasah Education, Govt. of West Bengal, Bikash Bhawan, Salt Lake, Kolkata – 700 091	6. Shri Subhashis Paul Ex-Officio Member Dy. Controller of Administration BITM, 19A, Gurusaday Road Kolkata – 700 019
7. Dr. Maitree Bhattacharyya, Member Director, JBNSTS, 1300, Rajdanga Main Road, Kasba, Kolkata – 700 107	7. Shri Arup Chakraborty, Ex-Officio Member Dy. Controller of Finance & Accounts, BITM, 19A, Gurusaday Road, Kolkata – 700019
8. Dr. Suman Lata, Member Principal, Kendriya Vidyalaya, Ballygunge, Kolkata – 700 019	8. Shri Arabinda Kundu, Member Secretary Technical Officer, Birla Industrial & Technological Museum 19A, Gurusaday Road, Kolkata – 700 019
9. Shri Amitabh, Member Project Coordinator, Shrikrishna Science Centre, Chaju Bagh, West Gandhi Maidan, Patna - 800 001	9. Invitee Members To be invited based on requirement for discussing specific Buildings projects of NCSM
10. Shri V S Ramachandran Ex-officio Member Director, Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata – 700 019	
11. Shri Rajib Nath Member Secretary Curator, Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata – 700 019	

Local Advisory Committee of Shrikrishna Science Centre, Patna	Local Advisory Committee of North Bengal Science Centre, Siliguri
1. Prof. Rasbihari Pd Singh, Chairman Former Vice Chancellor, Patna University 101, Rewati Apartment, Road No. 2, Kazipur, Patna-800 004	1. Dr. Subires Bhattacharyya, Chairman VC, University of North Bengal, Rajarmmohunpur Darjeeling, Pin. 734 013
2. Ms. Jyoti Parihar, Member Director, Kilkari Bal Bhawan Patna Collectorate, Patna - 801 503	2. Shri Amar Biswas, WBCS, Member DPOSSM & RMSA, Siliguri Educational District, Bhutia Market, Hakim Para Siliguri, Pin. 734 001
3. Shri Krishna Kanahaiya Pd Singh, Member ADM Law and Order, Patna Collectorate, Patna - 800001	3. Dr. Bikash Ch. Paul, Member Council for P.G.Studies in Science NBU, Rajarammohunpur, Darjeeling - 734013
4. Ms. Moumita Ghosh, Member Curator, Bihar Museum, Baily Road, Patna - 800 001	4. Dr. Mayukh Sarker, Member Principal, Acharya Prafulla Chandra Roy Govt. College, Matigara, Siliguri – 734 010
5. Prof. Naveen, Member Dept. of Physics, IIT, Patna, Bihar - 801 103	5. CEO, Member SJDA, Tazing Norgy Road Pradhannagar, Ward 1, PatiramJote, Siliguri, Pin. 734 001
6. Sister Josephine CJ, Member Principal, St. Joseph Convent High School, Bankipore, Patna-800 004	6. Smt. Debyani Saha, Member Principal, BSF Senior Secondary Residential School, Siliguri – 734 012
7. Dr. Vivekanand Pandey, Member Pro Vice Chancellor, Amity University, DPS More, Danapur, Patna-801 503	7. AEO & ADM, Member Siliguri Mahakuma Parishad Bhutia Market, Hakim Para, Siliguri – 734 001
8. Shri Ashok Kumar, Member Deputy Secretary, Bihar State University Service Commission, Dept. of Education Secretariat, Patna - 800 001	8. Shri Chandranath Das Curator, Himalayan Mountaineering Institute, Darjeeling
9. Dr. Upasana Singh, Member Head & Dean , Dept. of Education, Patna Women's College, Baily Road, Patna - 800 001	9. Prof. Indrajit Saha, Member Principal, North Bengal Medical College Sushrutanagar, Darjeeling, Pin. 734 012
10. Shri B Vinod, Member Principal, Delhi Public School, Vill. Chandmari, Danapur, Patna - 801 503	10. Shri Jyoti Ghosh, WBCS, Member (Exe) Deputy Director, Dept. of Tourism, North Bengal, Govt. of West Bengal
11. Shri V S Ramachandran Ex-officio Member Director Birla Industrial & Technological Museum, 19A, Gurusaday Road Kolkata – 700 019	11. Shri V S Ramachandran Ex-officio Member Director, Birla Industrial & Technological Museum, 19A, Gurusaday Road Kolkata – 700 019
12. Shri Amitabh, Member Secretary, Project Coordinator, Shrikrishna Science Centre, Chaju Bagh, West Gandhi Maidan, Patna- 800001	12. Shri Ritabrata Biswas, Member Secretary Project Coordinator, North Bengal Science Centre, P.O. Matigara, Siliguri – 734 010

Local Advisory Committee of Bardhaman Science Centre	Local Advisory Committee of District Science Centre, Purulia
1. Smt. Priyanka Singla, IAS, Chairman District Magistrate, Court Compound P.O. & Dist. Purba Bardhaman, Pin. 713 101	1. Dr. Dipak Kumar Kar, Chairman Vice Chancellor, Sidho Kanho Birsha University, Purulia
2. Dr. Asit Kr. Manna, Member Principal, M.B.C. Institute of Engineering & Technology, Sadhanpur, Purba Bardhaman, Pin. 713 101	2. Swami Shivaprasadanandaji Maharaj Member Secretary, Ramakrishna Mission Vidyapith, Purulia Pin. 723 147
3. Dr. Naba Kumar Mondal, Member University of Burdwan, Golapbag, Purba Bardhaman, Pin. 713 104	3. Smt. Krishna Saha, Member Govt. Girls' High School Ranchi Road, Purulia, Pin. 723 101
4. Shri Pramad Kumar Swain, Member Senior GM, The Supreme Industries Ltd., E.P.I.P. P.O. Bankskopa, Dist. Paschim Bardhaman, Durgapur – 12	4. Shri Bikash Mazumdar, Member DPO, SSM, Zilla Parishad Bhavan, 5th Floor, Purulia, Pin. 723 101
5. Smt. Mouli Sanyal, Member DPO, SSM, New Administrative Building, P.O. & Dist. Purba Bardhaman, Pin. 713 101	5. Dr. Santanu Chattopadhyay, Member Principal, J. K. College, Purulia - 723 101
6. Shri Buddha Deb Das, Member DYO, Purba Bardhaman, Postal Cooperative Building, 1st Floor, P.O. & Dist. Purba Bardhaman, Pin. 713 101	6. Dr. Bibek Chakraborty, Member Principal, Rama Krishna Mahato Govt. Engineering College Purulia, Pin. 723 103
7. Smt. Rama Bandyopadhyay, Member Headmistress, Rathtala Monohar Das Balika Vidyalaya, P.O. Kanchanagar, Purba Bardhaman, Pin. 713102	7. Dr. Subrata Raha, Member Head of Dept. of Botany, Sidho Kanho Birsha University, Purulia
8. Shri Soumen Konar, Member Head Master, Krishnapur High School, P.O. Rajbati, Purba Bardhaman, Pin. 713 104	8. Dr. (Mrs.) Indrani Deb, Member Principal, Nistarini College Desh Bandhu Road, Purulia – 723 101
9. Dr. Anindya Bose, Member Senior Scientific Officer, Dept. of Physics, The University of Burdwan, Rajbati, Purba Bardhaman, Pin. 713 104	9. Shri Pijush Maiti, WBES, Member DI of School (H.S.), Zilla Siksha Bhavan, (Hill View Ground), Dulmi Nadiha, Purulia, Pin. 723 101
10. Shri V S Ramachandran Ex-officio Member Director, Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata – 700 019	10. Shri Surya Kumar Jana, Member District Youth Officer, District Youth Office, Ranchi Road, Purulia - 723 101
11. Shri Nikhilesh Biswas, Member Secretary District Science Officer, Bardhaman Science Centre, Ramna Maidan, Baburbag, P.O. Rajbati, Purba Bardhaman, Pin. 713 104	11. Shri V S Ramachandran Ex-officio Member Director Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata – 700 019
	12. Dhrubajyoti Chattopadhyay, Member Secretary District Science Officer, North Bengal Science Centre, P.O. Matigara, Siliguri – 734 010

Local Advisory Committee of Digha Science Centre			
1. District Magistrate & District Collector, Tamluk, Purba Medinipur, Pin. 721 636	Chairman	7. Shri Hrisikesh Das, Head Master, Battala Anandamoyee High School, Purba Medinipur	Member
2 District Inspector of School (Sec.) Tamluk, Purba Medinipur	Member	8. Sub Divisional Officer, Contai, Purba Medinipur, Pin. 721 401	Member
3. Dr. Amit Kr. Dey, Principal, Prabhat Kumar College Contai, Purba Medinipur, Pin. 721 401	Member	9. Block Development Officer Ramnagar - 1, Purba Medinipur	Member
4. Shri S Balakrishnan, Scientist-in-Charge, ZSI, Digha Purba Medinipur, Pin. 721 428	Member	10. Administrator & Executive Officer, DSDA, Digha, Purba Medinipur, Pin. 721 428	Member
5. Additional District Inspector of School, (Secondary), Contai, Purba Medinipur, Pin. 721 401	Member	11. Shri V S Ramachandran Director, Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata – 700 019	Ex-officio Member
6. Shri Samarendra Nath Das, Principal, Contai Public School Contai, Purba Medinipur, Pin. 721 401	Member	12. Shri Niranjana Gupta, Project Coordinator, Digha Science Centre, Foreshore Road, New Digha Purba Medinipur, Pin. 721 463	Member Secretary