

ACTIVITY REPORT

2017-2018



VISVESVARAYA INDUSTRIAL & TECHNOLOGICAL MUSEUM

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VISVESVARAYA INDUSTRIAL & TECHNOLOGICAL MUSEUM

VITM walked through the year 2017-18 with significant contributions to the society in the field of non-formal science education. The year witnessed opening of new facilities, new programmes, new international associations and adoption of new digital technologies in exhibit design and display.

During the year, visitors to the museum crossed the 1 million mark with increasing trend in visitors to the museum, challenging us to keep abreast with the visitors' demand for new interactive experiences in the museum.

The new gallery on '**Space Technology**' was opened on 28th November 2017 by Shri A.S. Kiran Kumar, Chairman, ISRO in the presence of Dr. K Kasturirangan, Chairman, National Education Policy Committee and Chairman, Karnataka Jnana Ayoga. The gallery showcases various facets of space technology with special emphasis on Indian space programme through digital interactive exhibits.

The new Museo Bus '**Cauvery**' with new exhibits on '**Electricity and Magnetism**' was launched on 17th June, 2017 at SKVD Government High School, Chikkanahalli, Sira Taluk, Tumkur District. The exhibition was inaugurated by Shri T.V. Jayachandra, Hon'ble Minister of Law, Justice & Human Rights, Parliamentary Affairs Legislation and Minor Irrigation, Government of Karnataka.

Selection and orientation of students for participation in the International Astronomy Olympiad was taken up by VITM on behalf of NCSM. The Orientation Cum Selection Camp (OCSC) was successfully organized at VITM during April-May, 2017 with the support of various educational and research institutes in and around Bangalore. During the Camp, students were extensively trained in problem solving skills, instrumentation and observational astronomy. Later, the selected 3 students were invited for the pre-departure camp held during October 2017 at VITM in which vigorous training was imparted to the students before taking them to the International event at Weihai in China. In the international event, the Indian team won one Gold and two Bronze medals.

VITM hosted the Digital Exhibition "**Uniting India – Sardar Patel**" from 2nd June to 30th June 2017. The exhibition was inaugurated by the Hon'ble Governor of Karnataka Shri Vajubhai Vala on 2nd June, 2017. In addition, the museum organized various other travelling exhibitions like '**Light & Matter**', '**Health & Hygiene**', the '**Wonderful World of Crystals**', '**Yoga Sandesha-an exhibition on Yoga**', '**Body & Mind**' & **Nobel Prizes, 2017**'.

During its anniversary, the museum launched two new Science Demonstration Lectures on the topics '**Chemical Reactions**' and '**Force & Pressure**'. The newly launched Science Demonstration Lectures have been very popular among the visitors to the museum.

The museum associated with the Australian High Commission, New Delhi in organising a unique programme "**Science Circus**" on 13th June 2017. Science Communicators Dr. Graham Walker from Australian National University and Dr. Sturat Kohlhagen from Questacon, Science & Technology Centre Canberra flew in from Australia as resources persons. The programme involved demonstration of interesting experiments on science through exemplary presentation skills by the visiting professionals.

VITM in collaboration with Southern State Governments organised the **Southern India Science Drama Festival (SISDF)** on 23rd and 24th November, 2017. The festival witnessed competitive

participation from all the Southern States. The teams from Lakshadweep participated for the first time in the event.

The **Southern India Science Fair (SISF 2017)** was organised by the museum in collaboration with Education Departments of Southern States from 8th to 12th January 2018. The fair was hosted by Government of Telangana at St. Patricks Higher Secondary School, Secunderabad. During the fair, several innovative projects and models both demonstrative and participatory in nature developed by the students were on display. The fair was visited by a large number of students, teachers and general visitors.

The **Innovation Festival and Engineering Fair organised** by the museum during January and March 2018 attracted a large number of innovators. Both the events received large scale appreciation from the media and general public.

VITM continued its non-formal education extension activities by organizing public lectures, sky observation programmes, Teachers' Training Programmes etc throughout the year for the benefit of teachers, students and general public. In addition, VITM organised special programmes regularly to mark various occasions like **Total Solar Eclipse, International Day of Yoga, International Science Centre & Science Museums Day, World Wildlife Day, World Space Exploration Day, National Science Day** etc., with various programmes and activities for students, teachers and general public.

As part of professional development programme, VITM organised a training programme for the state museum professionals of Govt. of Karnataka on 7th and 8th September, 2017. This programme was aimed at developing new concepts and ideas for the Science Demonstration Lectures. The programme was attended by more than 40 state museum professionals.

The Mobile Science Exhibition bus of VITM travelled through the length and breadth of various districts of Karnataka organising exhibitions in various schools. In addition, during the Mobile Science Exhibition, science model making workshop, science film shows, science demonstration lectures and sky observation programmes were held at the respective schools.

REGIONAL SCIENCE CENTRE, TIRUPATI

The year 2017-18 was an eventful year with the addition of new facilities - Digital Planetarium, Space Exposition Hall and the Innovation Resource Centre. The facilities were inaugurated on 21st May 2017 by Shri Nara Chandrababu Naidu, Hon'ble Chief Minister of Andhra Pradesh. The Space Exposition Hall houses the planetarium and an exhibition on 'Space'. The innovation resource centre is filled with activities for Thod, Phod, Jhod, build from scrap, startup experiments, idea box etc., to kindle the innovative interest among students and innovators. It provides an opportunity for young minds to work on their dream ideas in a scientific environment.

During the year, various travelling exhibitions like '**Light Matters**', '**Wonderful World of Crystals**', **Sir. M. Visvesvaraya – Legendary Nation Builder** etc., were held for short durations at the centre. The exhibitions attracted large number of visitors to the Centre.

The centre joined hands with the Education Departments of Andhra Pradesh and Telangana to organize the District and State level Science Seminars on the topic '**Swachh Bharat – Role of Science & Technology, Promises & Challenges**' at the centre and at other venues in the two states.

RSC T continued its non-formal education extension activities by organizing public lectures, sky observation programmes, Science demonstration lectures science shows etc throughout the year. In addition, commemorative events like **International Yoga Day, Environment Day, National Science Week, International Science Centre & Science Museums Day, Earth Day, Brain Awareness Week** etc., were observed with various programmes and activities for the benefit of students, teachers and general public. The **Innovation Festival** organized at the Centre during March, 2018 attracted large number of grass root innovators from places in and around Tirupati, wherein, they were encouraged to showcase and explain their innovation to the public.

The Mobile Science Exhibition bus of RSC T travelled through the length and breadth of different districts of Andhra Pradesh & Telangana organizing exhibitions in various schools. In addition, during the Mobile Science Exhibition, science model making workshop, science film shows, science demonstration lectures and sky observation programmes were held at the respective schools.

DISTRICT SCIENCE CENTRE, GULBARGA

During the year 2017-18, District Science Centre, Gulbarga added **Innovation Resource Centre** to its existing facilities. The Innovation Resource Centre was inaugurated on 29th June 2017 by Shri Ujjwal Kumar Ghosh, Deputy Commissioner of Gulbarga. The Innovation Resource Centre is vibrant with activities for Thod, Phod, Jhod, build from scrap, startup experiments, idea box etc., to kindle the innovative interest among students and innovators. It provides an opportunity for young minds to work on their dream ideas in a scientific environment.

The Centre collaborated with Education Department of Karnataka to organize Taluk level and District level Science Seminars on the topic "**Swachh Bharat – Role of Science & Technology, Promises & Challenges**" at the centre. The seminar attracted students from different backgrounds and encouraged them to present their ideas and concepts on the above topic. In addition, the centre also worked with the Education Department to organize **District level Science Drama contest and District level Science Fair** for school students.

DSC G continued its non-formal education extension activities by organizing public lectures, sky observation programmes, Teachers' Training Programmes etc., throughout the year for the benefit of teachers, students and general public. In addition, several commemorative events like **Environment Day, International Science Centre & Science Museums Day, International Day of Yoga, National Science Week** etc., were observed with various educational programmes for students, teachers & general public. The programmes attracted large number of students, teachers and general public.

The **Innovation Festival** organised at the centre during February 2018 attracted innovators from places in and around Gulbarga with display of their innovative ideas and products. The exhibition was visited by large number of people from Gulbarga district.

The Mobile Science Exhibition bus of DSC G travelled through Kalaburagi and Vijayapura Districts organizing exhibitions in various schools. In addition, during the Mobile Science Exhibition, **Science Model Making Workshop, Science Film Shows, Science Demonstration Lectures and Sky Observation Programmes etc.**, were held at the respective schools.

DISTRICT SCIENCE CENTRE, TIRUNELVELI

District Science Centre, Tirunelveli added **Innovation Resource Centre** to its existing facilities during the year. The Innovation Resource Centre was inaugurated on 6th September 2017 by Dr Krishnan Baskar, Vice-Chancellor, Manonmaniam Sundaranar University, Tirunelveli. The Innovation resource centre has been active with various innovative programmes encouraging students to take up innovative projects. Various student groups are actively working on different innovative science projects.

The Centre associated with the School Education Department, Tamil Nadu to organize Science Seminar on the topic “**Swachh Bharat: Role of Science & Technology – Promises and Challenges**” at the Block, Taluk and State level. The programme was attended by large number of students. In addition, the Centre in association with Education Department of Govt. of Tamil Nadu organised the District Level Science Drama contest.

DSCT continued its non-formal education extension activities by organizing **Public Lectures, Sky Observation Programmes, Teachers’ Training Programmes** etc., throughout the year for the benefit of teachers, students and general public. In addition, several commemorative events like **Earth Day, Technology Day, Environment Day, World Ozone Day, International Science Centre & Science Museums Day** etc., were observed with various activities and programs to popularize science and technology among the student community. The programmes attracted large number of students, teachers and general public.

As part of outreach to the urban community, the Centre organised an innovative programme ‘Mooligai Murtam’ in which traditional herbal knowledge was exposed to the general public encouraging them to identify herbal plants, learn about their importance and application in daily life.

The Mobile Science Exhibition bus of DSCT travelled through Dindigul, Coimbatore and Tirunelveli districts of Tamil Nadu organizing exhibitions in various schools. In addition, during the Mobile Science Exhibition, **Science Model Making Workshop, Science Film Shows, Science Demonstration Lectures and Sky Observation Programmes** etc., were held at the respective schools.

2. (a) GENERAL INFORMATION

Details of Museum / Centre	Visvesvaraya Industrial & Technological Museum	Regional Science Centre Tirupati	District Science Centre Gulbarga	District Science Centre Tirunelveli
Head of the Museum/ Centre & Designation Shri.	K. Madan Gopal Director	R. Manigandan Project Coordinator	C. N. Laxminarayana District Science Officer	K. Navaram Kumar District Science Officer
Full Address of Museum / Centre	Kasturba Road Bangalore – 560001	Near Alipiri Gate Alipiri - Chittoor By-pass Road Tirupati – 517507	Municipal Garden Kalaburagi - 585103	Kokkirakulam Tirunelveli -627 009
STD Code	080	0877	08472	0462
Phone Nos.	22864114	2286202	220608	2500256
Tele-fax	080-22864114 080-22864009	0877-2286202	08472-220608	0462-2500256
E-mail	vitmuseum@gmail.com	rsctirupati@gmail.com	scienceglb@gmail.com	sciencecentrenellai@gmail.com, dsodst@gmail.com
Website	www.vismuseum.gov.in	www.rsctirupati.org.in	www.sciencecentr ekalaburagi.org.in •www.gulbarga.nic. in/dsckalaburagi	www.dsctirunelveli.org.in,
Working Hours	10.00AM - 6.00 PM	10.00 A.M- 6.00 P M (10.00 A.M-6.30 PM. on Sundays)	10.30 AM - 6.00 PM	10.30 A.M - 6.30 PM
Closed on	Ganesh Chaturthi & Deepavali	Ganesha Chaturthi & Deepawali	Holi & Deepavali	Pongal & Deepavali
Admission Fee	<ul style="list-style-type: none"> ▪ Rs. 50/-per head for general public ▪ Rs.25/- for students in organised groups 	<ul style="list-style-type: none"> ▪ Rs.25/- per head for general public ▪ Rs.15/- for students in groups 	<ul style="list-style-type: none"> Rs.15/- per head for general public Rs.10/- per head for organised school students(Pvt.) Science Park : Rs. 10/- per head for public & Rs.5/- per head for organised students 	<ul style="list-style-type: none"> ▪ Rs.15/- per head for general public ▪ Rs.10/- for students in organised groups
Inaugurated on	27 th July 1965	23 rd Sept. 1993	6 th January 1984	27 th February 1987
Total floor area in Sq.Mts.	11,700	4,797	2,080	2,660
Staff Strength				
Scientific	5	1	0	1
Technical	55	13	6	6
Non Technical	31	7	4	3

2. (b) EXPENDITURE:

Expenditure (Rs.in Lakh)	VITM, Bangalore	RSC, Tirupati	DSC, Gulbarga	DSC, Tirunelveli	Total
Recurring	1,090.38	162.75	70.22	91.63	1,414.98
Revenue Receipt	498.98	44.40	32.44	51.45	627.27
Non Recurring					
General	637.89	100.75	88.31	62.75	889.70
CCA	278.19	87.51	48.67	72.84	487.21
Total Non Recurring	916.08	188.26	136.98	135.59	1,376.91

2(C) VISITORS TO MUSEUM/CENTRE:

Name of Museum/Centre	VITM, Bangalore	RSC, Tirupati	DSC, Gulbarga	DSC, Tirunelveli
No. of School groups	3,341	985	880	785
No of Students in above	1,98,760	64,304	54,235	50,997
No. of Visitors to Special Programme	40,938	55,145	43,788	29,521
No of General Visitors	6,24,432	81,672	75,251	2,25,532
No. of Free entry (Activity Club members, defence, handicapped etc)	13,756	3,423	6,732	25,646
Total Visitors to Museum/Centre	8,77,886	2,04,544	1,80,006	3,31,696
Visitors to MSE including film shows	1,12,953	71,954	9833	16,562
Visitors to Outreach Programmes	1,57,520	2,92,728	1,33,810	96,768
Total No of visitors to Museum / Centre & outreach Programme	10,93,665	5,69,226	3,23,649	4,45,026

3. EXISTING GALLERIES:

Name of the Museum/Centre	Name of the gallery	Floor area in Sq. Mts.	Date of Inauguration	Date of major Renovation	Number of Exhibits
VITM, Bangalore	Electrotechnic	723	08.04.2010	27.07.2015	74
	Biotechnological Revolution	554	04.01.2003	-	73
	Science for Children	263	30.04.2007	-	34
	How Things Work	350	28.07.2014	28.07.2014	37
	Engine Hall	620	02.06.1994	27.07.2015	57
	Fun Science	700	23.05.2008	-	53
	Space Technology	700	19.06.1999	28.11.2017	58
	BEL Hall of Electronics	554	29.06.2004	-	51
RSC, Tirupati	Fun Science	370	23.09.1993	-	39
	Our Senses	370	15.10.2005	-	42
	Illusion	370	17.12.2006	-	45

Name of the Museum/ Centre	Name of the gallery	Floor area in Sq. Mts.	Date of Inauguration	Date of major Renovation	Number of Exhibits
	Emerging Technology	370	18.08.2007	-	59
	Popular Science	370	07.09.2009	-	44
	Our Universe	370	04.02.2012	-	53
	Space Exposition Hall	381	21.05.2017	-	14
	Innovation Space	381	21.05.2017	-	-
DSC Gulbarga	Fun Science	102	06.01.2004	-	34
	Electronics	806	10.10.2005	-	44
	Popular Science	102	09.04.2012	-	24
	Mathematics	102	17.01.2015	-	33
	Mirror Maze	85	09.04.2012	-	01
DSC, Tirunelveli	Fun Science	120	16.01.2008	-	22
	Electronic Gallery	430	17.04.2009	-	49
	Popular Science	150	28.02.1987	-	30
	Mirror Magic	130	22.12.2012	-	26

4. NEW GALLERIES / MAJOR RENOVATIONS:

VITM, Bangalore : Upgraded Space Technology Gallery was inaugurated on 28th November 2017.

RSC, Tirupati :

- 1) Space Exposition Hall – Inaugurated on 21st May 2017
- 2) 8 Meter dome Digital Planetarium – Inaugurated on 21st May, 2017

DSC, Gulbarga: Innovation Space was inaugurated on 29th June 2017

DSC, Tirunelveli: Innovation Space was inaugurated on 6th September 2017.

5. MOBILE SCIENCE EXHIBITION UNITS IN THE MUSEUM/CENTRE:

SI No	Title of the unit	Name of the Museum/Centre that developed the unit	No of Exhibits	Year in which developed	Date of major Renovation
1.	Popular Science -II (at DSC, Tirunelveli)	VITM, Bangalore	24	1993	-
2.	Man and Space (at DSC Gulbarga)	VITM, Bangalore	24	1994	-
3.	Environment (at RSC, Tirupati)	RSC, Tirupati	24	2002	-
4.	Biodiversity (at VITM Bangalore)	VITM, Bangalore	24	2007	-
5.	Our Senses (at RSC T)	RSC, Tirupati	22	2014	-

6. NEW TEMPORARY EXHIBITIONS (IN HOUSE DEVELOPMENT):

VITM: 1) Nobel Prizes 2017

2) Yoga Sandesha – an Exhibition on Yoga, Mind & Body

RSC T :

DSC G :

7. SCIENCE PARK: List of exhibits at Annexure – 1

Name of the Museum/Centre	Area of the Science Park in Hectares or Acres	No of Exhibits	Date of Inauguration of Park	No of exhibits added during the year, if any
VITM, Bangalore	Science Park - 800 Sq. Mtrs.	11	-	
RSC, Tirupati	Science Park – I 4.5 Acres	56	23.9.1993	-
	Traditional Herb Garden	-	23.9.1995	-
	Pre historic Life Park - 2.5 acres	34	28.5.2003	-
	Science Park Phase – II – 2.5 acres	16	04.2.2012	-
DSC, Gulbarga	Science Park - 2.34 Acres	48	2.03.1995	-
	Prehistoric Animal Park - 0.03 acre	7	9.04.2012	-
DSC, Tirunelveli	Pre historic Life Park - 5.69 Acre	84	27.02.1987	-
		10	27.02.2012	-

8. EXHIBIT DEVELOPMENT:

Name of the Museum/Centre	VITM Bangalore	RSC Tirupati	DSC Gulbarga	DSC Tirunelveli
No. of Gallery Exhibits	96	6	2	6
No. of Park Exhibits	--	-	-	-
No. of Exhibits for Temporary Exhibition	13	25	-	-
No. of Exhibits for Mobile Science Exhibition	--	-	-	-
No. of Kits developed (for New Science Shows)	10	17	5	24
No. of Duplicate Kits (in-house)	--	-	-	-
No. of Duplicate Exhibits (in-house)	--	-	-	-
No. of Duplicate exhibits (outside agencies)	--	-	-	-
No. of Duplicate Kits (outside agencies)	--	-	-	987
No. of Exhibits Renovated- category (gallery/MSE/Temp Exhibition)	--	12	-	-
No. of Kits Renovated (mention category - gallery/MSE/Temp. Exhibition)	--	-	-	-
Total	119	48	7	1,017

Note: List of exhibits and kits developed during the year is enclosed in the Annexure – 2

9. COLLECTION OF ARTEFACTS:

10. PLANNING:

- VITM:**
1. Renovation of Biotechnological Revolution Gallery
 2. Setting up of a Gallery on 'River Cauvery' at Mysore
 3. Completion of Modernisation of Space Technology Gallery
- RSC T**
1. Completion of Gallery on Non Conventional Sources of Energy
 2. Completion of Silver Jubilee Exhibition at RSC T
- DSC-G.** – Gallery on Human Biology
- DSC-T** – Renovation of FSG/PSG

11. MOBILE SCIENCE EXHIBITION PROGRAMME :

VITM launched a new Museo Bus with new Mobile Science Exhibits on 'Electricity & Magnetism' on 17th June 2017 at SKVD Govt. High School, Chikkanahalli, Sira Taluk of Tumkur District. Shri. T. B. Jayachandra, Hon'ble Minister for Law, Justice & Human Rights, Parliamentary Affairs & Legislation and Minor Irrigation, Govt. of Karnataka inaugurated the exhibition and released a folder on the exhibition 'Electricity & Magnetism' in the presence of Prof. Gopalan Jagadeesh, Dept. of Aero Space Engineering, Indian Institute of Science, Bengaluru.

The Mobile Science Exhibition buses of VITM, Bangalore RSC Tirupati, DSC Gulbarga and DSC Tirunelveli toured rural districts of Karnataka, Andhra Pradesh, Telangana and Tamil Nadu during the year.

The statistics of the MSE programmes held by various centres are furnished below:

Name of the Museum/ Centre	Name of the Vehicle/Unit	Theme of Exhibits	No. of Exhibition Days	Kms. travelled	No. of Exhibition Sites	No. of Visitors
VITM Bangalore	Cauvery	Electricity & Magnetism	147	4,197	78	88,584
RSC Tirupati	Sapthagiri	Our Senses	134	2,933	70	2,64,482
DSC Gulbarga	Bheema	Man & Space	151	1,339	78	1,22,176
DSC Tirunelveli	Tamirabarani	Popular Science	99	2,978	60	94,208

12. SCIENCE EDUCATION:

(a) SDL AND SCIENCE SHOWS:

Science Demonstration Lectures and Science Shows were conducted on different topics in VITM & its Satellite Centres as listed below.

VITM Launched two new Science Demonstration lectures on 'Chemical Reactions' and Force & Pressure' during 52nd Anniversary week celebrations in July 2017.

Name of the Museum/ Centre	Name of the SDL Units	No of lectures held in Museum/ Centre	No of students attended the lecture	No of lectures held outside museum	No of students attended the lecture
VITM	Science is Fun	400	11,753	12	1,000
	Liquid Nitrogen	--	--	13	2,000
	Chemical Reactions	5	649	--	--
	Force & Pressure	2	463	--	--
RSC T	Acid, Bases & Salts	30	4,526	50	28,246
	Cold Shows	287	23,806	--	--
	Electricity & Magnetism	12	1,840	-	-
	Bio Science	17	2,465	-	-
	Anti Superstition Show	3	650	-	-
DSC G	Electricity & Magnetism	48	2,903	4	355
	Acids, Base & Salts	87	5,325	12	2,165
	Science is Fun	39	2,244	7	683
	Anti Superstition Shows	100	7,172	-	-
DSC T	Science Vs Miracle	61	4,816	-	-
	Electricity & its Effects	28	1,694	-	-
	Cryogenics (Liquid Nitrogen)	29	2,846	11	4,156
	Science is Fun	19	2,423	-	-

12(b) NATURE STUDY CAMPS:

Name of the Museum/Centre	Venue of the Camp	Duration of Camp (Date)	No of students	No of teachers
RSC T	Seshachala Forest	One day 22.03. 2018	70	5
DSC G	Eco-walk DSC G Garden & Science Park	One day 09.11. 2017	126	17

12(c) ENVIRONMENT AWARENESS PROGRAMME:

Museum / Centre	Venue of the Camp	Duration of Camp (Days & Date)	No of students	No of teachers
DSC T	Kalakkad Forest	One day 17.06 2017	64	12

12 (d) SCIENCE ON A SPHERE:

For the first time in India the 'Science on a Sphere' facility was opened at VITM on 28th July 2014.

It is a large visualisation system that uses multimedia projections to display animated data on to the exterior of a sphere converting it into a immersive animated globe that shows dynamic, animated images of the atmosphere, oceans and land area of a planet. Combined with narrations and supporting material, it adds as another education and outreach tool to the museum. It is an innovative and powerful teaching tool to enhance informal education on earth, climate change etc. and transform the public perception to effectively implement conservation measures of the earth.

Name of the Centre	No of shows	Total No of visitors
VITM, Bangalore	746	26,843

12 (e) WRIGHT BROTHERS' FLYER SIMULATOR :

As value addition to the existing 1903 Wright Brothers' Flyer, the museum added a simulator which is first of its kind in the country. The simulator allows visitors to fly the aeroplane in the condition as Wright Brothers' had in 1903. The controls in the flyer are positioned similar to that of the original Wright Brothers' flyer.

Also on display is the original wood of 'Red Spruce' which was part of Wright Brothers' Flyer built and flown in 1913 by the Wright Brothers'.

Name of the Centre	Total No of visitors
VITM, Bangalore	16,789

12(f) FILM SHOWS (VIDEO SHOWS):

Name of the satellite Unit/Centre	No of film shows	Total No of visitors
VITM, Bangalore	7,872	2,30,927
RSC, Tirupati	42	12,852
DSC, Gulbarga	269	6,497
DSC, Tirunelveli	3,323	1,43,562

12 (g) 3-D Shows

Name of the satellite Unit/Centre	No of 3Dshows	Total No of visitors
VITM, Bangalore	3013	1,20,480
RSC, Tirupati	1383	25,605
DSC, Gulbarga	1,184	29,518
DSC, Tirunelveli	1170	41,431

12(h) POPULAR SCIENCE LECTURES :

Venue	No. of Lectures	No of audience
VITM, Bangalore	10	2,345
RSC, Tirupati	10	3,255
DSC, Gulbarga	20	4,278
DSC, Tirunelveli	13	2238

For details please refer Annexure – 3

12(i) TARAMANDAL SHOWS:

Taramandal, an exciting portable mini planetarium has an inflatable dome with simple projection equipment.

Number of Taramandal programmes conducted in VITM & its satellite units is listed below.

Name of the Museum/Centre	No of shows held	No of audience
VITM, Bangalore	615	14,146
RSC, Tirupati (Taramandal)	24	235
RSC, Tirupati *	1,649	59,768
DSC, Gulbarga *	1,246	39,062
DSC, Tirunelveli *	1,481	52,379

* Digital Planetarium

12(j) SCIENCE QUIZ:

Name of the Museum	No of Quiz Contest held	No of participants	No of Audience
VITM, Bangalore	25	2,528	3,330
RSC, Tirupati	32	7,425	2,050
DSC, Gulbarga	34	293	4,148
DSC, Tirunelveli	30	1,048	1,258

12(k) SKY OBSERVATION PROGRAMMES:

Name of Museum	No of Programmes held	No of participants
VITM, Bangalore	39	5,076
RSC, Tirupati	65	5,750
DSC, Gulbarga	72	1,371
DSC, Tirunelveli	61	3,074

12(l) VIDEO PROGRAMMES OR COMPUTER SOFTWARE/MULTIMEDIA PROGRAMMES DEVELOPED

VITM	“Story of Space” –for Space Technology Gallery
	Interactive software “Orbits of satellites” for Space Technology Gallery
	Interactive software on “Satellite Remote sensing” for Space Technology Gallery
	Interactive software on “Satellite Communication” for Space Technology Gallery
	“Powers of Ten” software in 3 languages English, Kannada and Hindi for Space Technology Gallery

	"Escape Velocity" for Space Technology Gallery
	"Satellite Imagery" for Space Technology Gallery
	"Mission to Moon" for Space Technology Gallery
	International Space Station –for Space Technology Gallery
	IRNSS-NAVIC" for Space Technology Gallery
	"Satellite Ground Trace Display" for Space Technology Gallery
	"Satellite Next Visibility" for Space Gallery
	Multimedia "Rockets", "SLV-3", "PSLV", "GPS", "Coded Mask", "Space Spin off", "Space materials", "32 meter antenna", "Space food", "Space suit", "Mangalyan" and "Chandrayaan" for Space Technology Gallery
	Interactive software "Experts' View" for Cauvery Gallery, Mysore
RSC TIRUPATI YOUTUBE CHANNEL Videos	
01	National Science Week
02	Innovation Festival

13.CREATIVE ABILITY:

(a) SCIENCE FAIR/CAMP:

Science fairs provide an opportunity for students & teachers to think creatively and develop working models on various scientific topics. Students present individual exhibits as well as group exhibits. Teachers are encouraged to present teaching aids/models developed by them in the fair. District level and State level Science fairs are coordinated by the State Education departments.

Museum / Centre	Venue of the fair/ Camp & Date	District / Zonal / State	No of Schools participated	No of Students	No of science clubs participated	No of projects	No of visitors
VITM	St Patrick's Hr Sec School, Secunderabad Andhrapradesh 8 th to 12 th January 2018	31 st Southern India Science Fair ZONAL	225	229	--	164	48,000
	VITM 8 th to 10 th February 2018	Innovation Festival - 2018' ZONAL	--	56	--	35	6,550
	VITM 15 th to 17 th March 2018.	Engineering Fair ZONAL	19	286	--	97	18,000
RSC T	RSC T (Innovation Festival) 2-4th March 2018	Zonal		61		36	10,400
DSC G	DSC G 24 th November 2017	District Level Science Fair	48	96	12	48	9,220
DSC T	DSCT 6 th to 8 th March 2018	Innovation Festival 2018	-	75	-	35	19,347

13(b) SCIENCE SEMINAR:

Science Seminar provides an opportunity to the young students to debate on the topic of current issues, to inculcate in them a spirit of scientific inquiry and analytical thinking. It forms a common platform to the budding scientists from all over the country for exchanging their ideas and to nurture a feeling of national integration. The Science Seminars are organised at Block level, District level and State level in the country by the Education Department of the respective states. National level events are held at the National level units of NCSM. This year the theme of the Seminar was ‘**Swachh Bharath: Role of Science & Technology - Promises & Challenges**’.

Museum/ Centre	Venue & Date	District/ Zonal/ State	No of students	No of Participating Schools	No of Audience
VITM Bangalore	G. G. Hr. Sec School, Ashok Nagar, Chennai 22 nd August 2017	Tamil Nadu State level Science Seminar	29	29	100
	G. G Hr. Sec. School, Puducherry 30 th August 2017	Pondicherry State level Science Seminar	12	12	250
	Godavari Hall, SCERT, Hyderabad 7 th October 2017	Telangana State level Science Seminar	28	28	100
	Vidhyabhavana, Chickmagaluru 9 th October 2017	Karnataka State level Science Seminar	34	36	134
	RSC T 11 th October 2017	Andhra Pradesh State level Science Seminar	25	25	100
	Krist Raj Hr. Sec. School, Kollam 14 th October 2017	Kerala State level Science Seminar	28	28	133
RSC, Tirupati	RSC, Tirupati 31 st August 2017	District	29	29	150
	RSC, Tirupati 11 th October 2017	AP State	25	25	125
DSC Gulbarga	DSC Kalaburagi 28 th August 2017	South Taluk	19	19	140
	DSC Kalaburagi 29 th August 2017	North Taluk	15	15	130
	DSC Kalaburagi 12 th September 2017	District	16	16	190
DSC Tirunelveli	DSC, Tirunelveli 26 th July 2017	Block	12	06	48
	DSC, Tirunelveli 27 th July 2017	Block	12	06	51
	DSC, Tirunelveli 28 th July 2017	Block	12	06	59
	DSC, Tirunelveli 7 th August 2017	District	10	10	35

13 (c) CREATIVE ABILITY CENTRE (CAC):

Name of the Museum/Centre	VITM	RSC-T	DSC-G	DSC-T
No. of Projects completed in Museum's CAC	-	6	105	-
No. of Creative Ability Centres	-	4	4	-
No. of Students involved in above	-	31	89	-
No. of Vacation CAC in museum	8	10	4	4
No. of Students involved in above	155	300	111	34
No. of Projects completed in above	672	44	68	25

List of projects completed is enclosed in Annexure - 4

13(d) VACATION HOBBY CENTRE/CAMP:

Name of Museum/ Centre	Venue of programme	Duration	Subjects	No of Participants
VITM	VITM	10 th to 21 st April 2017	Astronomy, Electronics & Physics	68
		15 th to 26 th May 2018	Astronomy, Chemistry, Electronics, Mathematics & Physics	87
RSC T	RSC T	24th April –27 th May 2017	Herbal Gardening, Industrial Chemistry, Arts & Science, Make & Remake, Astronomy, Robotics, Electronics, Vedic Mathematics, Biology, Science Film Making.	300
		26th September 3 rd October 2017	Mosquito Mapping, Helicopter & Drone workshop, Astronomy, and HAM Radio workshop	31
DSC G	DSC G	11 th to 27 th April 2017	Electronics, Physics Chemistry & Astronomy	111
DSC T	DSC T	3 rd to 17 th May 2017	Astronomy, Toy Making	15
	DSC T	26 th to 31 st December 2017	Basic Electronics, Build from Scrap	19

13(e) SIT & DRAW / ESSAY WRITING:

Name of the Museum/ Centre	Venue	Date	Occasion	No. of Participants	Subject
Sit & Draw Contest	RSC T	4 th June 2017	Environment Day	300	Environment
		5 th June 2017	Environment Day	150	Environment
		17 th June 2017	World Day to Combat Desertification	225	Anti-Desertification
		10 th September 2017	World Ozone Day	300	Ozone
		25 th February 2018	National Science Week	250	Science and Technology
		18 th March 2018	Brain Awareness Week	200	Brain
Sit & Draw Contest	DSC G	18 th May 2017	International Museum Day	85	An exhibition hall of a science museum'
		5 th June 2017	World Environment Day	214	Nature, greenhouse effect & environmental pollution
		21 st June 2017	International Day of Yoga	79	Yogasanas - postures & their names'
		11 th July 2017	World Population Day	125	Nature
		5 th August 2017	Hiroshima Day	78	Harnessing Nuclear Energy' & 'Alternative energy resources'
		16 th September 2017	World Ozone Day	134	Our Environment, Earth & its atmospheric layers' and 'Green House effect & Global Warming
		5 th November 2017	Birth Anniversary of Sir C V Raman	145	'Sir C.V Raman & His Effect'
		9 th November 2017	2 nd World Science Centre & Science Museum Day	124	Science for peaceful purposes & Space exploration
		9 th January 2017	34 th Anniversary of DSC G	118	Nature, Space exploration, Energy resources,
25 th February 2017	National Science Day	187	Sir C V Raman & his effect and devices to harness energy		
Sit & Draw Contest	DSC T	22 nd April 2017	World Earth Day	458	Earth and Climate III Effects of Mining
		17 th June 2017	World Environment Day	195	Leaf Art

		21 st June 2017	International Day of Yoga	225	Yogasananas
		13 th August 2017	World Photography Day	169	Transport Agriculture
		11 th September 2017	Teacher's Day	18	Smart Class
		5 th October 2017	Wildlife Week	122	Wildlife Wildlife for Human Welfare
		8 th October 2017	World Sight Day	687	Fruits, Healthy Diet Eye Safety, Eye Donate
		13 th October 2017	International Day for Natural Disaster Reduction	53	Natural Disaster
		25 th February 2018	DSC T Anniversary Week	957	Science & Society
Essay Writing Contest	RSC T	13 th May 2017	National Technology Day	150	Science and Technology
		17 th July 2017	Man Landing on Moon	200	Space & Astronomy
		31 st October 2017	National Unity Day	80	National Unity
		4 th November 2017	Vigilance Awareness Week	120	My Vision corruption free India
		2 nd December 2017	Anti-Pollution Day	150	Environment & Pollution
		13 th March 2018	Brain Awareness Week	125	Brain
Essay Writing	DSC G	6 th June 2017	World Environment Day	150	Role of an individual for clean & green India'
		11 th July 2017	World Population Day	112	'Population growth - Environmental & Social problems'
		23 rd September 2017	Hindi Pakhwada	7	About Dist. Science Centre Gulbarga
Essay Writing	DSC T	11 th September 2017	Teacher's Day	27	Teaching Techniques
		6 th October 2017	Wildlife Week	77	Rivers of KMTR
		13 th October 2017	International Day for Natural Disaster Reduction	47	Disaster Management
		6 th December 2017	-----	169	Water Management - Conservation and Future Plans

14. TRAINING:

(a) **TEACHER'S TRAINING PROGRAMME (TTP) :**

Teachers Training programme provides an opportunity and an exposure to school teachers to effectively use easily available tools & materials for developing low cost teaching aids for supplementing class room teaching.

SI. No.	Venue of the Programme	Period of the Programme Date From & to	No. of Teachers trained	No. of teaching aids Developed
1	Delhi Public School(South) Bangalore	25 th May 2017	18	7
2	Delhi Public School(South) Bangalore	26 th May 2017	19	10*
3	VITM	16 th December 2017	30	90
4	RSC T	17 th April 2017	300	55
		15 th October 2017	50	
		24 th February 2018	25	
		14 th March 2018	25	
5	DSC-T	28 th – 30 th June 2017	49	505
6		28 th – 30 th November 2017	47	506

Experiments *

(b) **COMPUTER TRAINING PROGRAMME:**

Name of the Museum/ Centre	No of Programmes	Duration	No. of participants	Subject
VITM	1	App Development Course on Android 5 th to 7 th May 2017	22	Introduction to mobile systems, Android operating system and App inventor. Designing of Five different apps on Recipe, Medi Kit, Fitness, Smart Home and Bloodline
RSC T	2	24 th March,2018 30 th March,2018	181	MS Office, Power point, Internet Explorer, Basics in Hardware
DSC G	1	June 2017 All Saturdays & Sundays	30	MS-Word, Excel, PowerPoint, introduction of Email & internet, Photoshop, CorelDraw

15. COMMUNITY PROGRAMMES :

(a) SCIENCE DRAMA / PUPPETRY / OTHER FORMS OF PERFORMING ART:

Name of Museum	Venue of the programme	Description of media	No. of staff involved	No. of programmes	No. of participants	No. of audience
VITM	VITM	Southern India Science Drama Festival (SISDF-2017) 23 rd & 24 th November 2017	65	1	112	800
DSC G	DSC G	Kalaburagi South Taluk level Drama 13.09.2017	9	1	72	320
		Kalaburagi North Taluk level Drama 14.09.2017	5	1	40	325
		District Level Science Drama 21.09.2017	8	1	64	240

(b) OTHER COMMUNITY PROGRAMMES (Training programmes organised in VITM/ RSC / DSC for different categories of people):

Name of the Centre	Sl. No	Nature of Programme	Venue	Duration	No. of Participants/ audience
VITM	1	World Food Day	VITM	16 th October 2017	100
	2	World Wild Life Day	VITM	27 th October 2017	25
	3	World Space Day	VITM	28 th October 2017	200
	4	142 nd Birth Anniversary of Sardar Vallabhabhai Patel, 'Rashtriya Ekta Diwas'	VITM	31 st October 2017	350
	5	Sky Observation Programme	VITM	31 st January 2018	500
	6	International Women's Day	VITM	8 th March 2018	200
RSC T	1	International Day of Yoga	RSCT	21 st June 2017	375
	2	Randi Suchodham..Taramandal	RSCT	27 th July 2017, 27 th October 2017 & 18 th December 2017	699
	3	Swachh Bharat Pakhwada	RSCT	16th Sept.2017 to 2 nd Oct.2017	617
	4	World AIDS Day(Week)	RSCT	1 st to 6 th Dec.2017	5450

	5	World Ozone Day	RSCT	10 th & 16 th September 2017	550
	6	Oil & Gas Conservation & Special Sky observation	RSCT	31 st January 2018	400
	7	Polio Vaccination	RSCT	29-30 th January 2018 & 11 th to 13 th March 2018	150
	8	Brain Awareness Week	RSCT	12 th to 18 th March 2018	6450
	9	Earth Hour	RSCT	24 th March 2018	250
DSC G	1	Total Lunar Eclipse - Awareness	DSC G	31 st January 2018	1,600

16. COMMEMORATIVE EVENTS:

Events like World Earth Day, World Environment Day, National Science Day and World Science Day, Technology Day etc with science related activities for target audience. These commemorative events are organised in all the science centres of NCSM.

Name of the Museum/Centre	No. of programmes
VITM, Bangalore	17
RSC, Tirupati	12
DSC, Gulbarga	22
DSC, Tirunelveli	22

For details please refer Annexure – 5

17. TEMPORARY EXHIBITIONS:

Museum/Centre	Title of Exhibition	Duration	No. of visitors	Borrowed from	No. of visuals	No. of working/ Animated Exhibits
VITM	Uniting India – Sardar Patel	2 nd June to 30 th June 2017	60,000	NSC Delhi	25	24
	Yoga Sandesha – an exhibition on Yoga, Mind & Body	19 th June to 30 th September 2017	2,04,000	--	--	7
	Light Matters	31 st August to 10 th October 2017	59,500		28	17
	A Step towards Cleanliness	16 th to 30 th September 2017	28,000	--	16	1
	Nobel Prizes 2017	7 th December 2017 to 31 st March 2018	2,75,000		6	--

	The Wonderful World of Crystals	19 th December 2017 to 30 th January 2018	95,000	NCAM	43	7
RSC T	'Sir M. Visveswaraya - The Legendary Nation Builder'	23 rd September to 15 th November 2017	19,014	NCSM	35	4
	'Light Matters'	16 th December 2017 to 31 st January 2018	38,516	NCSM	30	15
	'The Wonderful world of Crystals'	22 nd February to 31 st March 2018	39,366	NCSM	30	15
DSC G	Understanding the Universe	29 th June to 31 st July 2017	5,700	-	17	7
	Statistics at Work	26 th September to 18 th November 2017	2,250	-	25	6
	Sir M Visveswaraya	5 th December 2017 to 2 nd February 2018	17,300	-	35	-
DSC T	Sir M Visveswaraya – The Legendary Nation Builder	21 st July to 1 st September 2017	29,285	RSC T	37	-

18. COLLABORATIVE PROGRAMMES (WITH OUTSIDE ORGANISATIONS):

Networking with likeminded institutions is an ongoing activity of NCSM. The details of such Collaborative Programmes held are listed below.

Details are given in Annexure – 6

Name of the Museum/Centre	No. of programmes
VITM, Bangalore	15
RSC, Tirupati	15
DSC, Gulbarga	12
DSC, Tirunelveli	22

19. LIBRARY & INFORMATICS:

Name of the Museum/ Centre	Item	Total holding as on 01-04-17	No. Acquired during the year 2017-2018	No. Written off during the Year 2017-2018	Net holding as on 31-03-18
VITM	Books	11,007	134	90	11,053
	Journals	6	6**	-	6
	Film 16mm	242	-	-	242
	Video Tapes/	500	-	-	500
	CD/DVD ROMS	405	-	-	405
	Slides	1,765	-	-	1,765
	Maps & Charts	151	-	-	151
RSC T	Books	389	7	-	396
	Journals	5	-	-	5
	News Letters	-	-	-	-
	Maps	2	-	-	2
	Charts	2	-	-	2
DSC G	Books	787	-	-	787
	Journals	1	-	-	1
	Film 16mm	0	-	-	0
	Video Tapes	43	-	-	43
	Slides	13 sets	-	-	13 sets
	Audio Cassettes	0	-	-	0
	Educational CDs	9	-	-	9
DSC T	Books	1,131	-	-	1,131
	CD/DVD	33	-	-	33
	16mm films	09	-	-	09

** Renewal only

20. PUBLICATIONS:

Name of the Museum/ Centre	Name Of The Publication	Process	Number Printed	Expenditure Incurred (in Rs.)
VITM	Booklet for Uniting India – Sardar Patel Exhibition	Multi colour Offset Printing	300	20,573.00
	Space Gallery Folder	Multi colour Offset Printing	1500	14,096.00
	Activity Report of VITM & SU	B & W Xerox, Digital Cover page prints and Spiral Binding	51	4,738.00
RSC T	All in one Hand-outs	Digital printing	102	3,100.00
	All in one Hand-outs(MSE)	Digital printing colour prints	60	1,500.00
	All in one Hand-outs	Digital printing	102	3,100.00
DSC G	Pamphlets	Digital print	2,400	3,600.00
	Pamphlets	Offset print	6,000	3,300.00

21. CONSTRUCTION:

Name of the Unit	Name of the work	Tender Value of Work * (Rs. In lakhs)	Date of Commencement	Date of Completion
VITM	SITC of Air-conditioner on rental basis at 3 rd floor link block, VITM, Bangalore.	3.622	01/June/2017	30/June/2017
	Electrical Re-wiring works in 2 nd and 3 rd floor link block, VITM, Bangalore.	7.00	20/February/2018	30/March/2018
	SITC of outdoor mounted LED wall at VITM, Bangalore.	9.91	19/March/2018	30/March/2018
	Up-gradation of Toilets at Auditorium foyer including toilet for Physically challenged visitors	1.33	7/February/2018	31/March/2018
	Smoke detector in Store & Kitchen (Cafeteria)	4.94	28/November/ 2018	27/December/2017
	Installation of assistive structure for PH	3.71	5/October/2017	27/October/2017
	Replacement of firefighting accessories like RRL, Hose, Hose Reel drum etc.	2.40	19/December/2017	17/January/2018

	Repair of chajjas at VIMSA	6.21	19/December/2017	15/February/2018
	Flooring for compound steam engine installed at Science park	1.13	8/January/2018	22/January/2018
RSC T	External Painting of Main building	2.14	7/September/2017	5/October/2017
	Renovation of toilets including electrical work	3.49	16/February/2018	17/March/2018
	Food court at Science Park	4.96	19/January/2018	17/February/2018
	Internal painting at selected places	2.76	9/October/2017	8/November/2017
	First floor gallery area polishing of mosaic floor	0.92	11/Aug/2017	10/September/2018
	Road leads to Herbal garden, Auditorium and Prehistoric life park	2.83	1/January/2018	30/January/2018
	Providing waterproofing treatment on the terrace of building at RSC, Tirupati	9.41	25/September/2017	24/October/2017
DSC G	Renovation of Dormitory	1.1	28/February/2018	28/April/2018
	Converting existing auditorium into gallery	1.96	7/September/2017	27/October/2017
	Up/gradation of visitors facility at Science Park	5.88	16/December/2017	29/January/2018
	Relocating science park exhibits along pathways	4.06	29/November/2017	28/December/2017
	Construction of visitors facility cafeteria/food court	3.35	6/December/2017	29/December/2017
	Face lifting of approach from main gate to the gallery entrance	6.56	8/January/2018	29/January/2018
DSC T	Up-gradation of cafeteria including electrical works	14.02	20/Mar/2018	Work in progress
	Painting of Planetarium and renovation of corridor and ramp	2.07	8/January/2018	6/February/2018
	Construction of grill/barbed wire on compound wall to additional height	3.14	10/January/2018	8/February/2018
	Providing storm water drain	1.53	25/January/2018	25/March/2018
	Renovation of gallery flooring at FSG/PSG	8.89	1/January/2018	30/January/2018
	Up-gradation of Conference Room- Civil and electrical work	3.99	1/January/2018	30/January/2018

Internal and external painting at DSC, Tirunelveli	0.99	5/September/2017	11/ September /2017
SITC of APFC Panel,	1.91	12/December/2017	15/March/2018
SITC of LED Signage,	1.43	04/October/2017	18/November/2017
SITC of LED Matrix display,	1.58	04/October/2017	18/November/2017
Electrical Installation works for up- gradation of conference room	1.08	20/February/2018	05/March/2018

22. PROCUREMENT OF EQUIPMENT:
(Under PL-5 (iv) – Costing Rs.5000/- or more)

Museum / Centre	Name of the Equipment	Date of procurement	Cost (Rs)
VITM	Water Cooler-150 ltrs	18.04.2017	47,250/-
	150" Projection Screen	30.03.2017	46,659/-
	PTZ Dome Camera	30.03.2017	1,04,424/-
	Chimney for Canteen	24.05.2017	1,81,070/-
	IR Bullet Camera	26.05.2017	1,01,222/-
	IP Dome Camera	26.05.2017	2,91,708/-
	IP Dome Camera	18.06.2017	64,355/-
	Cordless drill	25.09.2017	12,555/-
	Hi wall Split AC	27.09.2017	1,33,632/-
	Apple i Pad	25.09.2017	34,500/-
	Hand Jigsaw Machine	26.09.2017	20,768/-
	55" LED Monitor	27.09.2017	94,080/-
	Tread shear machine	06.10.2017	68,440/-
	UltraShort Throw Multimedia Projector	25.10.2017	2,12,593/-
	Compressor	05.10.2017	72,192/-
	Belt & Disc sander machine	09.10.2017	13,275/-
	Digital Soldering Station	09.11.2017	1,20,360/-
	Coral draw soft ware	26.10.2017	63,000/-
	Power hacksaw machine	17.11.2017	2,41,900/-
	Digital Desoldering station with elements 3 nos	16.11.2017	31,187/-
Rack Server	30.11.2017	1,41,600/-	

	DSP Amplifier	15.11.2017	2,65,500/-	
	Trolley Mirror	31.10.2017	6,528/-	
	Offline UPS	22.12.2017	5,074/-	
	Digital Desoldering station w/o elements 2 nos	11.12.2017	25,960/-	
	Offline UPS 1KVA	29.12.2017	13,983/-	
	Boom Barrier	28.02.2018	92,187/-	
	Printer	29.12.2017	10,443/-	
	Desktop Computer	30.12.2017	1,71,000/-	
VITM	Tally Soft ware	29.12.2017	39,648/-	
	Epson Multifunction Printer	08.01.2018	12,036/-	
	Desktop Computer	09.01.2018	58,500/-	
	Split AC	10.01.2018	60,310/-	
	Coral draw graphics Soft ware	05.03.2018	63,000/-	
	98" LED Display	20.03.2018	1,54,000/-	
	Scanner	31.3.2018	16,461/-	
	For Innovation Hub			
	Magnetic Sensor	23.02.2017	13,053/-	
	Lego Creative Set	23.02.2017	38,293/-	
	Tilt Sensor	23.02.2017	86,219/-	

Museum / Centre	Name of the Equipment	Date of procurement	Cost (Rs)
RSC T	Casio XJ Projector -2No.s	05.05.2017	2,05,615/-
	Laptop HP -2No.s	20.05.2017	1,01,500/-
	Lenovo Think computer	26.05.2017	1,73,670/-
	Circular Polaroid -1set	11.08.2017	49,283/-
	Surface Roughness tester	09.08.2017	1,26,000/-
	BOSCH sander	27.11.2017	5,300/-
	Boom Barrier	18.12.2017	92,187/-
	Stroboscope	08.02.2018	13,158/-
	UPC-1 KVA – 5 No.s	31.03.2018	49,265/-
	Tablet-2No.s	31.03.2018	34,180/-

	Computers - 3 No.s	31.03.2018	1,59,000/-
	DLP Projector	31.3.2017	2,05,613/-
	Trolley Mirror	31.10.2017	6,528/-
	Binoculars	27.03.2018	58,410/-
For Innovation Hub			
	Magnetic Sensor	23.02.2017	13,053/-
RSC T	Lego Creative Set	23.02.2017	38,293./-
	Tilt Sensor	23.02.2017	86,218/-
	Mini lathe	31.03.2017	1,16,577/-

Museum / Centre	Name of the Equipment	Date of procurement	Cost (Rs)
DSC G	Projector LED - Casio XJ - 2 nos.	26.4.2017	2,05,038/-
	Projector LED with screen - Casio XJ- 1 no	17.5.2017	91,443/-
	CPU Lenova - Think Station for 3D Theatre	20.5.2017	1,66,674/-
	Projector LED - Canon Xeed for DP	20.5.2017	4,88,915/-
	Projector screen	20.5.2017	19,980/-
	Vacuum cleaner - Euro clean	26.9.2017	14,790/-
	Brush cutter – for Garden Maintenance	10.10.2017	33,000/-
	Inverters – 2 nos ; Luminous Make	19.10.2017	11,000/-
	Hedge trimmer	24.10.2017	19,930/-
	Lenova desktop Computer with accessories - with Epson printer	29.11.2017	52,510/-
	Boom barrier set	21.12.2017	91,652/-
	LED Projector	30.03.2017	91,443/-
	Trolley Mirror	31.10.2017	6,528/-

FOR INNOVATION HUB			
DSC G	Magnetic Sensor	23.02.2017	13,053/-
	Lego Creative Set	23.02.2017	38,293/-
	Tilt Sensor	23.02.2017	86,218/-
	Light track with accessories	31.05.2017	2,31,267/-
	Stage Focus LED	30.05.2017	49,365/-
	Stage Focus LED	17.03.2017	3,35,714/-
	Mini lathe	31.03.2017	1,16,577/-

Museum/ Centre	Name of the equipment	Date of procurement	Total Cost(Rs.)
DSC T	Amplifier with Tie Pin	01.06.2017	13,300/-
	Autoclave (Vertical)	01.06.2017	75,914/-
	Electronic Weighing Machine	17.06.2017	38,358/-
	Motorized Centrifuged Machine	17.06.2017	20,267/-
	Double Distillation Unit	17.06.2017	59,998/-
	Highspeed PCB Drilling Machine	17.06.2017	39,352/-
	3MHz Multiwave Form Signal	17.06.2017	9,880/-
	Bench Grinder	10.07.2017	5,700/-
	Laptop	17.06.2017	50,620/-
	Binocular Microscope	17.06.2017	33,719/-
	Stereoscopic Binocular Microscope	17.06.2017	27,306/-
	Binocular Upright Microscope	17.06.2017	98,986/-
	Oscilloscope	17.06.2017	19,735/-
	Refrigerator	03.09.2017	26,000/-
	Sterling Engine	17.06.2017	16,855/-
	Surface Roughness Tester	17.06.2017	1,26,000/-
	Air Conditioner	17.06.2017	2,02,961/-
	Boom Barrier	20.12.2017	92,784/-

DSC T	Cup Board	23.09.2017	14,050/-
	R O Plant	21.09.2017	1,99,999/-
	Loose note Counting Machine	14.06.2017	6,500/-
	LED Matrix Display	18.11.2017	1,58,000/-
	LED Signage	18.11.2017	1,48,280/-
	LED Street Light	18.11.2017	30,000/-
	DLP Projector	31.03.2017	2,05,613/-
	Trolley Mirror	31.10.2017	6,528/-
	FOR INNOVATION HUB		
	Magnetic Sensor	23.02.2017	13,053/-
	Lego Creative Set	23.02.2017	38,293/-
	Tilt Sensor	23.02.2017	86,219/-
	Light track with accessories	02.05.2017	2,39,294/-
	Mini lathe	31.03.2017	1,16,577/-

3. PERSONNEL:

(a) **APPOINTMENT** – new appointments and persons joining on transfer from other museums / centres

VITM, Bangalore

SI No.	Name of the person Shri /Smt/Ms	Cadre & Group Scie/Tech /Adm	Designation	Pay Scale Pay Matrix Level	Date of Joining	Basic Pay in Rs.	Highest Educational Qualification	Date of Birth
1	Premkumar. L	Technical	Technical Officer 'C'	11,08	17.04.2017	83,300/-	Diploma in Electrical & Electronics Engineering	05.01.1968
2	M.M.E. Namboodiri	Admin	C o A	12,06	31.05.2017	91,400/-	MBA	02.07.1961
3	Bhanu Kumar Kocarla	Admin	LDC	02,02	12.05.2017	20,500/-	M.A.	16.07.1988
4	K. Bharath Kumar	Admin	LDC	02,02	24.05.2017	20,500/-	B. Sc.	03.03.1989
5	Suryakanth	Technical	Technical Assistant 'A'	05,02	26.05.2017	30,100/-	Diploma in Civil Engineering	01.06.1989
6	Dipu Das	Technical	Technical Assistant 'A'	02,01	04.09.2017	19,900/-	ITI (Mechanic, Radio & TV)	01.01.1993
7	Tanjir Alam	Admin	Assistant	06,01	06.09.20017	35,400/-	M.A.	05.04.1987
8	Sasikumar Ayyanath	Admin	Assistant	06,11	28.09.2017	47,600/-	B.A	20.05.1969
9	Divya G.	Admin	LDC	02,01	05.10.2017	19,900/-	B.Sc	12.02.1988
10	Monika Solanki	Admin	Assistant	06,01	16.11.2017	35,400/-	M. Com	14.10.1990

23(b) PROMOTIONS:

SI. No.	Name of the person Shri/Smt/Ms	Designation and Pay Scale before Promotion	Designation and Pay Scale after Promotion	Basic Pay before promotion in Rs.	Basic pay after Promotion in Rs.	Effective date of Promotion
1	K.Madan Gopal	Curator 'F' Pay Matrix Level 13A, 12	Curator 'G' Pay Matrix Level 14, 10	1,81,500/-	1,88,200/-	13.08.2015

2	S. Balraj	Technical Officer 'A' Pay Matrix Level 07, 10	Technical Officer 'B' Pay Matrix Level 09, 06	58,600/-	61,500/-	13.02.2017
3	R. Vijayan	Technician 'E' Pay Matrix Level 06, 17	Technical Assistant 'B' Pay Matrix Level 06, 18	56,900/-	58,600/-	24.04.2016
4	Kamalakar Hegde	Technician 'E' ` 9300 -34800 (PB -2)	Technical Assistant 'B' Pay Matrix Level 06, 17	16,740+ 4,200GP = 20,940/- (Pre-revised)	56,900/-	06.12.2016
5	S. Anandan	Technician 'E' Pay Matrix Level 06, 17	Technical Assistant 'B' Pay Matrix Level 06, 18	56,900/-	58,600/-	06.03.2017
6	G.A. Prabhavathi	UDC Pay Matrix Level 05,14	Assisant Pay Matrix Level 06, 09	42,800/-	44,900/-	19.07.2017
7	Ramya 'B'	Technician 'B' Pay Matrix Level 05, 01	Technician 'C' Pay Matrix Level05, 03	29,200/-	31,000/-	23.03.2017
8	Sunil Kumar J.	LDC Pay Matrix Level 02, 08	UDC Pay Matrix Level 04, 01	24,500/-	25,500/-	17.08.2017
9	M.R. Prakash	LDC PB 1 ` 5200-20200	UDC Pay Matrix Level 04, 02	7,360+1,900GP = 9,260/- (Pre-revised)	26,300/-	01.06.2017

23(c) TRANSFERS:

Sl No	Full Name of personnel Shri/smt/Ms	Designation	Transferred fromto...	Date of Relief/ joining
1	S.B. Jayi	Technical Officer 'C'	From VITM to NCSM Hqrs	Relieved on 22.04.2017
2	Harsha Kumar K.M.	Assistant – Promoted as Section Officer	From VITM to Science City, Kolkata	Relieved on 01.09.2017
3	S. Muthukumar	Education Officer 'C'	From VITM to DSC Tirunelveli	Relieved on 13.04.2018
4	K. Navaram Kumar	Curator 'B'	From DSC Tirunelveli to VITM	Relieved on 16.04.2018
5	S. Rajeswari	Assistant – Promoted as Section Officer	From VITM to NCSM Hqrs	Relieved on 21.04.2018

23(d) RETIREMENT/REPATRIATION/RESIGNATION:

Sl No	Full name of person (Shri/Smt/Ms)	Designation	Name of the museum /centre	Resignation/ Retirement	Date of retirement or release (w.e.f)
1.	Kamalakar Hegde	Technician 'E'	DSC T	Retirement	30.04.2017
2.	P.K. Nandakumar	AO (SG)	VITM	Retirement	31.05.2017
3.	M. Puspavally	UDC	VITM	Retirement	31.05.2017
4.	P. G. Wakchaware	Tech Officer 'B'	VITM	Retirement	30.06.2017
5.	B. Narayan Singh	Technician 'E'	VITM	Retirement	31.10.2017
6.	K.G. Kumar	Curator G & Director	VITM	Retirement	31.12.2017
7.	Siddesh Murthy S.M	LDC	VITM	Resignation	13.03.2018
8.	S. Ramachandran	Driver (Spl Grade)	DSC T	Death	22.01.2018

24. MISCELLANEOUS: DISTINGUISHED VISITORS***VITM, BANGALORE***

1.	Shri. Vajubhai Vala, Hon'ble Governor of Karnataka
2.	Smt. Riddhi Mishra, Deputy Secretary (Museums), Dept of Culture, Govt. of India
3.	Smt. Sujatha Prasad, Additional Secretary, Ministry of Culture, Govt. of India
4.	Shri. Bipin Mallick, Additional Secretary & Financial Advisor, Ministry of Culture, Govt. of India
5.	Dr. Graham Walker, Australian National University
6.	Dr. Stuart Kohlhagen, Questacon Science and Technology Centre, Canberra
7.	Shri. A. S. Kiran Kumar, Chairman, ISRO
8.	Dr. K. Kasturirangan, Chairman, National Education Policy Committee & Chairman, Karnataka Jnana Ayoga
9.	Nadoja Dr. Mahesh Joshi, Former Additional Director General, Doordarshan (South Zone) Bangalore
10.	Dr. B. Jayashri, Theatre & Film Actress, Director & Singer, Bengaluru
11.	Shri. Suchendra Prasad, Theatre & Film Actor and Director Bengaluru
12.	Prof. Mark Birkinshaw, Professor of Cosmology and Astrophysics, University of Bristol, UK

RSC, TIRUPATI

1. Sri. N. Chandra Babu Naidu, Hon'ble Chief Minister of Andhra Pradesh.
2. Smt. M. Sugunamma, MLA, Tirupati
3. Shri Pradyumna IAS, Collector Chittoor Dist.
4. Brg.Ganesh, Palle Srujana, Hyderabad

DSC, GULBARGA

1. Shri Narendra, State Head, SIP Academy, Bengaluru.
2. Shri Ujjwal Kumar Ghosh, Deputy Commissioner & District Magistrate, Kalaburagi
3. Ms. Hephsiba Rani Korlapati, Chief Executive Officer, Zilla Panchayat, Kalaburagi
4. Shri Zameer Ahmed, Managing Director, Silicon Technologies, Kalaburagi
5. Smt. Manimala, Member, Gandhi Darshan Samiti, New Delhi
6. Dr. G.R Naik, Pro Vice Chancellor Central University of Karnataka

DSC, TIRUNELVELI

1. Shri. A Venkatesh I F S, Chief Conservator of Forest & Field Director, Kalakad Mundandurai Tiger Reserve, Tirunelveli
2. Dr. Namashivayam Ganesh Pandian, Professor, Kyoto University, Japan.
3. Dr. Krishnan Baskar, Vice-Chancellor, Manonmaniam Sundaranar University, Tirunelveli.
4. Shri. Navaneethkrishnan, Deputy Director (Engineering), Doordarshan, Tirunelveli.
5. Shri. Susanta Kumar Jena, Manager (HR), Nuclear Power Corporation of India Limited, Mumbai.
6. Shri. Yve (France), President – Asia Region, Jacobi Carbons Pvt. Ltd

24(b) MEDIA PROGRAMMES IN WHICH STAFF PARTICIPATED:

Centre	Name of the Staff	Name of the media	Type of the programme	Broadcast on
VITM	Shri. R. Gopalakrishna E.O.	Praja TV	A talk on 'Total Lunar Eclipse'	31.01.2018
RSC T	Shri.Y.Durgaiah E.O,RSC(T)	AIR (107.5 F.M Radio) ,Tirupati	A talk on Stars and Constellations	23.06.2016
	Shri. R. Manigandan PC,RSC(T)	SCV - Cable, ABN - Network, T.V- 9,Tirupati	A talk on 'Super Moon, Red Moon & Blue Moon'	31.01.2018
	Shri. R. Manigandan PC,RSC T & N.T.Purushothama, Edu.Asst,RSC(T)	AIR(107.5 F.M Radio),Tirupati	A talk on National Science Day	28.02.2018
	Shri C.N. Laxminarayana DSO, DSCG	A.I.R. Kalaburagi	Innovation Festival	14.02.2018
	Shri C.N. Laxminarayana DSO, DSCG	Red FM 93.7	Innovation Festival	18.02.2018
DSC T	Shri K Navaram Kumar, DSO,DSCT	Suriyan FM	Technologies that Changed the World	11.05.2017
	Shri P. Marilenin, Education Assistant	Suriyan FM	National Technology Day Celebrations at DSCT	11.05.2017
	Shri P. Marilenin, Education Assistant 'B'	AMN TV	Facilities at DSCT	11.05.2017
	Shri N Ponnarasan Education Assistant 'A'	News 18	Vacation Programmes at DSCT	13.05.2017
	Shri K Navaram Kumar, DSO,DSCT & Shri P. Marilenin, Education Assistant	FM Rainbow	History of Science Centre, Tirunelveli	01.06.2017
	Shri P. Marilenin, Education Assistant	Mayuri TV	World Photography Day Programme	19.08.2017

24(c) POPULAR LECTURES BY STAFF

Centre	Venue	Date	Topic	Speaker (Shri/Mr)	Audience
VITM	VITM	15.09.2017	Contribution of Sir M. Visvesvaraya to the Irrigation'	Shri. K. Madan Gopal Director, VITM	150
DSC G	Siddharuda Public School, Bidar	30 .5.2017	Effective class room teaching using low cost no cost teaching aids	Shri C.N. Laxminarayana DSO, DSCG	60
	St. Josephs' convent P U College Kalaburagi	08.07.2017	Creating scientific awareness through activities of the science centre'	Shri C.N. Laxminarayana DSO, DSCG	403
	Kannada Bhavana Kalaburagi	09.07.2017	Scientific awareness – need of the hour	Shri C.N. Laxminarayana DSO, DSCG	605
	Bharatiya Vidya Kendra, Kalaburagi	12.10.2017	Effective learning using teaching aids	Shri C.N. Laxminarayana DSO, DSCG	85
	Mother Teresa PU college	15.10.2017	Scientific awareness	Shri C.N. Laxminarayana DSO,DSCG	220
	PDA Engineering College, Kalaburagi	11.11.2017	Science and Technology	Shri C.N. Laxminarayana DSO,DSCG	262
	Govt. Practicing School Kalaburagi	16.11.2017	Science and society	Shri C.N. Laxminarayana DSO,DSCG	502
	St. Joseph's Convent P. U. College Kalaburagi	03.11.2017	Scientific awareness	Shri C.N. Laxminarayana DSO,DSCG	327
	Dominant English Medium School Kalaburagi	24.12.2017	Scientific temper & awareness	Shri C.N. Laxminarayana DSO,DSCG	863
	Habib Educational Academy School, Kalaburagi	30.12.2017	Learning science through experimentation and models	Shri C.N. Laxminarayana DSO,DSCG	681
	Universal Eng. Med. School , Kalaburagi	13.01.2018	Creativity in science'	Shri C.N. Laxminarayana DSO,DSCG	644
	Innovative International School Kalaburagi	14.01.2018	Scientific awareness	Shri C.N. Laxminarayana DSO,DSCG	562
Shetty Sangappa Memorial School Kalaburagi	26.01.2018	Science & Technology in India	Shri C.N. Laxminarayana DSO,DSCG	655	

	VTU Kalaburagi	08.02.2018	Digital India	Shri C.N. Laxminarayana DSO,DSCG	80
	KCEDT Girls High School, Kalaburagi	09.02.2018	Scientific awareness	Shri C.N. Laxminarayana DSO,DSCG	635
	Gurukul Vidyaniketan High School, Kalaburagi	10.02.2018	Scientific attitude	Shri C.N. Laxminarayana DSO,DSCG	625
	Royal Eng. Medium School, Kalaburagi	17.02.2018	Importance of Scientific attitude	Shri C.N. Laxminarayana DSO,DSCG	655
	Govt. Women's Polytechnic Kalaburagi	16.03.2018	Scientific awareness	Shri C.N. Laxminarayana DSO,DSCG	635
	NSS camp of Godutai Degree College, Kalaburagi	24.03.2018	Space Technology	Shri C.N. Laxminarayana DSO,DSCG	80

DSC T	Immanuel Arasar College of Education, Marthandam	05.04.2017	District Science Centre Activities	Shri P Marilenin, EA	285
	Florence Swainson school for Deaf and Dumb, Palayamkottai	06.04.2017	Opportunities in Science Education	Shri.K.Navaram Kumar DSO, DSC (T)	780
	Vivekananda Higher Secondary School, Veerasigamani	06.04.2017	Career in Research	Shri P Marilenin, EA	360
	Anna University Regional Campus, Tirunelveli	29.08.2017	Learning from Failures	Shri.K.Navaram Kumar DSO, DSC (T)	156
	Rani Anna Govt. College for Women, Tirunelveli	01.09.2017	Science Model Making	Shri.K.Navaram Kumar DSO, DSC (T)	188
	Kanchi Sri Sankara Academy Matric Hr.Sec.School, West Tiruchendur	13.10.2017	Innovation Hub Activities	Shri.K.Navaram Kumar DSO, DSC (T)	1360
	FITJEE Science Exhibition, Asha Hall, KTC Nagar, Tirunelveli	07.01.2018	Innovation Hub Activities	Shri.K.Navaram Kumar DSO, DSC (T)	245
	St. Ignatius Convent Higher secondary School, Palayamkottai	23.01.2018	Role of Science Club in Schools	Shri P Marilenin, EA	544
	IIFE Laxmi Raman Matric Higher Secondary School, Uthamapandiankulam	27.01.2018	Impact of Science Exhibitions	Shri P Marilenin, EA	794
Best International School, Kadayanallur, Tirunelveli	31.01.2018	How to make Innovative Science Models	Shri P Marilenin, EA	895	

St.Xaviers College, Palayamkottai	08.02. 2018	District Science Centre – An Overview	Shri N. Ponnarasan, EA	175
The MDT Hindu College, Pettai	27.02. 2018	Innovation for Local needs	Shri.K.Navaram Kumar DSO, DSC T	218
SMA Mat. Hr. Sec. School, Adaikkalapattanam	28.02. 2018	Science & Culture	Shri.K.Navaram Kumar DSO, DSC T	895
Rose Mary Public school, V.M. Chatram	03.03. 2018	Value of Education	Shri.K.Navaram Kumar DSO, DSC T	396
St. Xavier's College, Palayamkottai	15.03.2018	Climate Change	Shri.K.Navaram Kumar DSO, DSC T	1180
Government Engineering College, Tirunelveli	15.03. 2018	Innovations for Local Needs	Shri.K.Navaram Kumar DSO, DSC T	660
Jawahar Nursery & Primary School, Melapalayam	17.03. 2018	Famous Innovation	Shri.K.Navaram Kumar DSO, DSC T	480

(d) **FOREIGN DEPUTATIONS:**

VITM:

Shri. K. Madangopal, Curator 'F' VITM was deputed to the 22nd International Astronomy Olympiad held at Weihai Shandong Province (CHINA) from 27th October to 4th November 2017 to lead three students as part of NCSM in junior (alpha) category from India. Indian team returned with **one Gold and two Bronze medals**. Out of the three students, Master Amit Kumar Mallik of Sri Chaitanya School, Hyderabad bagged Gold medal, Master Lokesh Satish Kolhe of Vivekananda School, Jalgaon, Mumbai and Master Malayvardha N Prajapati of Tulips International School, Ahmadabad won one Bronze medal each.

SCIENCE PARK EXHIBITS :**V.I.T.M BANGALORE**

1	Stationary Steam Engine – 1926	6	Hydro-Electric Generator Reaction Turbine
2	Swings of different lengths	7	Amusing See-saw
3	Portable Steam Engine	8	Railway Engine – SMR Metre Gauge 1888
4	Archimedes Screw	9	H F 24 Aircraft
5	Sun Dial	10	Solar Street Light
11	Solar Water Pump		

RSC TIRUPATI

Sl. No.	Name of the Exhibit	Sl. No.	Name of the Exhibit
1	A Swing is A Pendulum	29	Action and Reaction
2	Sympathetic Swing-I	30	Cone Runs Uphill
3	Trace a Pattern	31	Win the Race
4	Compound Pendulum	32	Centrifugal Force
5	Straight Line or Circle?	33	Echo tube
6	Swing a Quintal	34	ISIS
7	Variable Pendulum	35	Whispering garden
8	Inclined Planes	36	Musical Bars
9	Pulleys Lift Loads	37	Elliptical Speaking Tube
10	Lever Reduces Effort- 3No.s	38	Optic Tree
11	A Sea-Saw is a Lever	39	Bird In a Cage
12	Pulley Drive	40	World Minus Colours
13	Gear Train	41	Perception of Depth
14	Worm Wheel -2 Nos.	42	A simple Camera
15	Check your weight	43	Nipkov's Disc
16	Lift Yourself	44	Oscillating or Rotating
17	Roller Coaster - 2 Nos.	45	Archimedes Screw
18	The Acrobatic Ball	46	Moment of Inertia
19	Minimum Time path	47	Balancing (Moment)Wheel
20	Rolling and Sliding	48	Sun-dial
21	Segregation of Balls	49	Geodesic Dome - Rabbits Cage - 1
22	Guess the Length	50	Geodesic Dome - Rabbits Cage - 2
23	Size and Distance	51	Geodesic Dome - Rabbits Cage - 3
24	Ellipse Tracing	52	Geodesic Dome – Pigeon Cage
25	Möbius Band	53	Geodesic Dome - Ducks Cage
26	Impossible Triangle	54	Sympathetic Swing - II
27	Weightlessness	55	Animal in a Cage
28	Turn Faster	56	Spider Web

Pre Historic Life Park

Sl. No.	Name of the Exhibit	Sl. No.	Name of the Exhibit
1	Evolution of Man	18	Smilodon
2	Lemur	19	Cynognathus
3	Proconsul ape	20	Ankylosaurus
4	Neanderthal Man	21	Tyrranosaurus
5	Megatherium	22	Dimetrodon
6	Brachiosaurus	23	Anatosaurus
7	Moeritherium	24	Woolly Rhinoceros
8	Dienotherium	25	Spinosaurus
9	Woolly Mammoth	26	Psittocosaurus
10	Uintatherium	27	Velociraptor
11	Glyptodon	28	Pterenodon
12	Beluchitherium	29	Corythosaurus
13	Musk Ox	30	Dragon fly
14	Diatryma	31	Land scorpion
15	Archaeopteryx	32	Giant Squid
16	Magaloceros	33	Giant Water scorpion
17	Stegosaurus	34	Trilobite

SCIENCE PARK –Phase II

1	Lift yourself	10	Relative Motion
2	Probability	11	Earth-Moon System
3	Rolling Discs	12	Racing Balls
4	DNA	13	Bouncing Balls
5	Sea-saw as a Pump	14	2D to 3D
6	Pin Screen	15	Scientists - 8 Nos
7	Transverse Wave Propagation	16	Mathematical Totems -13 Nos
8	Laminar or Turbulent		
9	Variable Swing		

DSC, GULBARGA

1.	Archimedes' Screw	25	Minimum Time Path
2.	Musical Bars	26	Geodesic dome – 5m dia-4 Nos.
3.	Musical Pipes	27	Geodesic Dome-15m dia - 1 No.
4.	Lever Reduces Effort	28	Parabolic sound Reflectors
5.	II and III Order Lever	29	Sun dial
6.	Projective Geometry	30	Action and Reaction
7.	Inclined Plane	31	Periscope
8.	Pulley Lift Loads	32	Torsional Oscillation / Wave motion
9.	Variable - Pendulum-I	33	Geodesic Dome - 3m Dia - 1 No.
10.	Variable Pendulum-II	34	Amusing Seesaw
11.	Sympathetic Swing	35	Mobius Band - I
12.	Echo Tube	36	Mobius Band - II
13.	Swing is a Pendulum	37	Sea Saw is a lever
14.	Gear Train	38	Size and Distance
15.	Worm Wheel	39	Kinetic wheel /Yo-Yo wheel
16.	Pulley Drive	40	DNA Model – Double Helix
17.	Roller and Coaster	41	RNA Model
18.	Acrobatic Ball	42	Centrifugal force
19.	Rocking Chair	43	Water Wheel
20.	Cone Runs Uphill	44	Check your weight
21.	Camera Obscura	45	Lift your self
22.	Straight Line Or Circle	46	Perspective drawing
23.	Nipkov's Disc	47	Steam Engine - Horizontal
24.	Bird In a Cage	48	Turn faster

PREHISTORIC ANIMAL PARK

EXHIBITS

1	Dimetrodon	2	Scelidosaurus
3	Gallimimus	4	Psittacosaurus
5	Corythosaurus	6	Tyrannosaurus rex
7	Spinosaurus		

DSC, TIRUNELVELI

1. Sun dial
2. Early Man faces
3. Centrifugal force
4. Amusing See saw
5. Aero engine Radial type
6. Size And Distance
7. Win a race
8. Weightlessness 'A'
9. Echo Tube
10. Pulley System
11. Check Your Weight
12. Roller Coaster
13. Acrobatic Ball
14. Gravity Well
15. Pulley Drive
16. Gear train
17. Worm Wheel
18. How friction helps?
19. Swing is a Pendulum
20. Rocking Chair
21. Tug of War
22. Rolling Drum –Circular
23. Rolling Drum –Hexagonal
24. Deceiving Eyes
25. Inertia of Wheels
26. Gravity Paradox - A
27. Gravity paradox 'B'
28. Sound Reflectors
29. Harmonograph
30. World Clock
31. Self Balancing Sticks
32. Spider Web
33. Variable Pendulum
34. Bird in a Cage
35. Parabolic Path
36. Weightlessness 'B'
37. Size & Weight
38. Compound pendulum
39. Lever reduces effort –I
40. Lever reduces effort –II
41. Lever reduces effort –III
42. Lissajous Figures
43. Inclined Plane
44. Isis Speak - 1 set (2 Nos.)
45. Straight Line or Circle
(Pulfritch Pendulum)
46. Seesaw is a Lever 'A'
47. Seesaw is a Lever 'B'
48. Sympathetic Swing
49. Angular Momentum
50. Swing of Different length
51. One plus one is less than one
52. Projectiles
53. Action & Reaction
54. Archimedes Screw
55. Geodesic Dome
56. Moebius Band
57. Express Slide
58. Wave Motion
59. Cycloid Path
60. Lift Yourself Up
61. Elliptical Band
62. Scientists Busts (08 Nos)
63. Mathematical Totem (13 Nos)
64. Rabbit cages
65. Pet Aviary
66. Hyperboloid
67. Yo – yo
68. Guess the length
69. Garden Umbrella – 50 Nos. (9
damaged, Proposal is pending)
70. Geodesic Dome (5.4Mtrs)
71. Geodesic Dome (3.6 Mtrs)
72. Persistence of Vision
73. In volute in a Circle
74. Total Internal Reflection
75. Sun dial or Telling Time
76. Rotation per Minute
77. Spring Saves Energy
78. Inner Earth
79. Moment of Inertia
80. Rain Rain Come Again
81. Electromagnetic Waves
82. Ellipse
83. Tension

PREHISTORIC ANIMAL PARK EXHIBITS

Sl. No.	Name of the Exhibit	Sl. No.	Name of the Exhibit
1	Dimetrodon	6	Baluchitherium
2	Stegosaurus	7	Glyptodon
3	Corinthosaurus	8	Spinosaurus
4	Tyrannosaurus Rex	9	Psittacosaurus
5	Gallimimus	10	Scelidosaurus

ANNEXURE – 2

GALLERY EXHIBITS DEVELOPED:

VITM, BANGALORE

SI No	Name of the Exhibit Completed	Name of the Gallery for which it is made	Centre for which it is developed
1.	What is space	Space Technology Gallery	VITM
2.	Powers of ten	Space Technology Gallery	VITM
3.	Atmosphere	Space Technology Gallery	VITM
4.	Looking into space	Space Technology Gallery	VITM
5.	Flight (video show)	Space Technology Gallery	VITM
6.	Flight mechanics	Space Technology Gallery	VITM
7.	Curved plates	Space Technology Gallery	VITM
8.	Converging & diverging pipes	Space Technology Gallery	VITM
9.	Floating ball vertical nozzle	Space Technology Gallery	VITM
10.	Floating ball horizontal nozzle	Space Technology Gallery	VITM
11.	Helicopter	Space Technology Gallery	VITM
12.	Rocket Propulsion	Space Technology Gallery	VITM
13.	Lift	Space Technology Gallery	VITM
14.	Drag	Space Technology Gallery	VITM
15.	Angle of attack	Space Technology Gallery	VITM
16.	Reaction wheel	Space Technology Gallery	VITM
17.	Rocket launching pad -2	Space Technology Gallery	VITM
18.	Rocket components	Space Technology Gallery	VITM
19.	SLV -3	Space Technology Gallery	VITM

20.	Mission control centre	Space Technology Gallery	VITM
21.	Tribute to Kalpana Chawla	Space Technology Gallery	VITM
22.	Space capsule recovery experiment	Space Technology Gallery	VITM
23.	Global positioning system (GPS)	Space Technology Gallery	VITM
24.	Indian satellites	Space Technology Gallery	VITM
25.	Rockets	Space Technology Gallery	VITM
26.	IRNSS navik	Space Technology Gallery	VITM
27.	Satellite communication	Space Technology Gallery	VITM
28.	SLV 3 heat shield	Space Technology Gallery	VITM
29.	Satellite remote sensing	Space Technology Gallery	VITM
30.	Space materials	Space Technology Gallery	VITM
31.	Satellite components	Space Technology Gallery	VITM
32.	Story of space time line	Space Technology Gallery	VITM
33.	Heat shield of PSLV	Space Technology Gallery	VITM
34.	ISRO centres	Space Technology Gallery	VITM
35.	Space applications	Space Technology Gallery	VITM
36.	Mission to moon (Chandrayaan 1)	Space Technology Gallery	VITM
37.	Mission to moon (Neil Armstrong)	Space Technology Gallery	VITM
38.	Mangalyaan	Space Technology Gallery	VITM
39.	Space debris	Space Technology Gallery	VITM
40.	Mile stones in space programme.	Space Technology Gallery	VITM
41.	Your weight on different planets	Space Technology Gallery	VITM
42.	Escape velocity	Space Technology Gallery	VITM
43.	International space station	Space Technology Gallery	VITM
44.	Space suit	Space Technology Gallery	VITM
45.	Space food-1	Space Technology Gallery	VITM
46.	Sunitha willams	Space Technology Gallery	VITM
47.	Rakesh sharma	Space Technology Gallery	VITM
48.	Beam wave guide antenna (Translite)	Space Technology Gallery	VITM
49.	Geo stationery earth orbit	Space Technology Gallery	VITM

50.	Beam wave guide antenna (Model)	Space Technology Gallery	VITM
51.	Story of space time line(touch table)	Space Technology Gallery	VITM
52.	Be an astronaut	Space Technology Gallery	VITM
53.	Smoke Cannon	Science for Children's Gallery	VITM
54.	Shapes	Science for Children's Gallery	VITM
55.	Weigh Balance	Science for Children's Gallery	VITM
56.	Parachute	Science for Children's Gallery	VITM
57.	Cams & Piston	Science for Children's Gallery	VITM
58.	Mechanical Toys -1	Science for Children's Gallery	VITM
59.	Mechanical Toys -2	Science for Children's Gallery	VITM
60.	Dominoes	Science for Children's Gallery	VITM
61.	Moving Balloon	Science for Children's Gallery	VITM
62.	How Muscles work	Gallery on Human Biology	DSC G
63.	Peristalsis motion	Gallery on Human Biology	DSC G
64.	How lungs work	Gallery on Human Biology	DSC G
65.	Iris	Gallery on Human Biology	DSC G
66.	Human Body Joints	Gallery on Human Biology	DSC G
67.	How we swallow	Gallery on Human Biology	DSC G
68.	Seeing your veins	Gallery on Human Biology	DSC G
69.	Planetary Motion	Fun Science Gallery	Catalytic support for NCSM Science Centres
70.	Probability Curve	Fun Science Gallery	Catalytic support for NCSM Science Centres
71.	Liquid Painting	Fun Science Gallery	Catalytic support for NCSM Science Centres
72.	Chaos	Fun Science Gallery	Catalytic support for NCSM Science Centres
73.	Acrobatic Stick	Fun Science Gallery	Catalytic support for NCSM Science Centres
74.	Identify the Magnet	Fun Science Gallery	Catalytic support for NCSM Science Centres
75.	Musical Pipes (Park Exhibit)	Fun Science Gallery	Catalytic support for NCSM Science Centres
76.	A sacred river	Cauvery Gallery	Mysore
77.	Ethnic diversity	Cauvery Gallery	Mysore
78.	Fairs & Festivals	Cauvery Gallery	Mysore
79.	Livelihood	Cauvery Gallery	Mysore

80.	Food & Cuisine	Cauvery Gallery	Mysore
81.	Tourism	Cauvery Gallery	Mysore
82.	Ecotourism	Cauvery Gallery	Mysore
83.	Journey through Cauvery	Cauvery Gallery	Mysore
84.	KRS dam	Cauvery Gallery	Mysore
85.	Water treatment Plant	Cauvery Gallery	Mysore
86.	Journey through Cauvery ((VR)	Cauvery Gallery	Mysore
87.	Cauvery Memoir	Cauvery Gallery	Mysore
88.	Sand dunes of Talakad	Cauvery Gallery	Mysore
89.	Did Cauvery change its course	Cauvery Gallery	Mysore
90.	Utilisation of Cauvery water	Cauvery Gallery	Mysore
91.	Water pollution	Cauvery Gallery	Mysore
92.	Sand mining	Cauvery Gallery	Mysore
93.	Climate change	Cauvery Gallery	Mysore
94.	Forest loss	Cauvery Gallery	Mysore
95.	Experts opinion	Cauvery Gallery	Mysore
96.	Rocks & Minerals	Cauvery Gallery	Mysore
97.	Nobel Prizes in Physics	Panel Exhibition Nobel Prize 2017	V I T M
98.	Nobel Prizes in Chemistry	Panel Exhibition Nobel Prize 2017	V I T M
99.	Nobel Prizes in Physiology & Medicine	Panel Exhibition Nobel Prize 2017	V I T M
100.	Nobel Prizes in Literature	Panel Exhibition Nobel Prize 2017	V I T M
101.	Nobel Prizes in Economics	Panel Exhibition Nobel Prize 2017	V I T M
102.	Nobel Prizes in Peace	Panel Exhibition Nobel Prize 2017	V I T M
103.	Yoga for Depression	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M
104.	Positive effects of Yoga Cognition	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M
105.	Research studies at NIMHANS	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M
106.	World Health Day 2017	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M
107.	Yoga for other Brain Disorders	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M

108.	Yoga for Health ageing	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M
109.	Yoga for Schizophrenia	Yoga Sandesha – an exhibition on Yoga Mind & Body	V I T M
110.	Intermolecular Force Kit	Kit – for SDL on ‘Force & Pressure’	V I T M
111.	Non-Contact Force Kit	Kit – for SDL on ‘Force & Pressure’	V I T M
112.	Nail Bed	Kit – for SDL on ‘Force & Pressure’	V I T M
113.	Manometer	Kit – for SDL on ‘Force & Pressure’	V I T M
114.	Auto Siphon	Kit – for SDL on ‘Force & Pressure’	V I T M
115.	Laplace Kit	Kit – for SDL on ‘Force & Pressure’	V I T M
116.	Magdeburg Disc	Kit – for SDL on ‘Force & Pressure’	V I T M
117.	Suction Cups	Kit – for SDL on ‘Force & Pressure’	V I T M
118.	Vacuum Chamber	Kit – for SDL on ‘Force & Pressure’	V I T M
119.	Cloud Chamber	Kit – for SDL on ‘Force & Pressure’	V I T M

RSC, TIRUPATI

Sl. No.	Name of the exhibit	Name of the Gallery for which it is made	Centre for which it is developed
1	Classical Wind Mills	Gallery on Non-conventional Energy Resources	RSC T
2	Muscle Energy	Gallery on Non-conventional Energy Resources	RSC T
3	Energy from Gravity	Gallery on Non-conventional Energy Resources	RSC T
4	Piezo Electric Generator	Gallery on Non-conventional Energy Resources	RSC T
5	Super Capacitors	Gallery on Non-conventional Energy Resources	RSC T
6	Photo Voltaic Cells	Gallery on Non-conventional Energy Resources	RSC T
7	Initiation Panel -1 No.	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
8	Centre in Making –I & II Panels -2 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
9	Inauguration -1 No. Beginning of a New Era1 No.	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T

10	Galleries –I, II, III-3 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
11	Travelling Exhibitions –I, II, III -3 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
12	Science Shows -1 No.	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
13	Rural Outreach –I & II Panels -2 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
14	Education Activities –I, II & III Panels - 3 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
15	Community Programme –I & II Panels - 2 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
16	Milestones –I , II ,III Panels -3 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
17	Student Science Seminar -1 No.	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
18	Reminiscences -1 No.	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T
19	NCSM –I & II Panels -2 Nos	Temporary exhibition exhibits Silver Jubilee of RSC T	RSC T

KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1.	Colour Light Mixer	Kit	RSC T
2.	Newton's Colour Disc	Kit	RSC T
3.	Double Prism Experiment	Kit	RSC T
4.	Fun with Electroplating	Kit	RSC T
5.	Chromosome structure	Kit	RSC T
6.	Types of Chromosomes	Kit	RSC T
7.	Meiosis Cell Division I & II	Kit	RSC T
8.	Air Rocket	Kit	RSC T
9.	Ball Resonator	Kit	RSC T
10.	Persistence of Vision -I	Kit	RSC T
11.	Persistence of Vision -II	Kit	RSC T
12.	Charles Law	Kit	RSC T
13.	Resistance Vs Temperature	Kit	RSC T

14.	Buzz Wire(Hand-Eye Co-ordination)	Kit	RSC T
15.	Chromosome structure	Kit	RSC T
16.	Optics	Kit	RSC T
17.	A.C & D.C	Kit	RSC T

DSC, GULBARGA

KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1	Reflection analogy	Gallery	DSC G
2	Parabola	Fun science Gallery	DSC G
3	Standing Wave generation	Kit / Aid	DSC G
4	Acrobatic ball	Kit / Aid	DSC G
5	Maths Puzzle	Kit / Aid	DSC G
6	Transfer of Momentum	Kit / Aid	DSC G
7	Water level indicator	Kit / Aid	DSC G

DSC, TIRUNELVELI

EXHIBITS/ KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1	Bermuda Bubble	Gallery	DSC T
2	Eddy Current	Gallery	DSC T
3	Cross Section	Gallery	DSC T
4	Electrical Resonance	Gallery	DSC T
5	Insulator to Conductor	Gallery	DSC T
6	Bernoulli's Principle	Gallery	DSC T

POPULAR SCIENCE LECTURE**VITM, BANGALORE**

SI. No.	DATE	TOPIC	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	15.06.2017	IEEE –VITM distinguished Lecture ‘Imminent Transformations in Health: P5 Cybernetic Health’.	Prof. Ramesh Jain, University of California, Irvine, USA	VITM	200
2	31.08.2017	‘Light’	Dr. H. L. Bhat, Former Professor, Dept of Physics, Indian Institute of Science, Bengaluru	VITM	255
3	16.09.2017	Swatchatta for Swasthya – Cleanliness & Hygiene for Good Health	Dr. Nimish Shah, Director, Safety & Environment Assurance Centre, Hindustan Unilever Research Centre, Bengaluru	VITM	180
4	19.12.2017	‘Crystals’	Dr. N. V. Madhusudhana, Emeritus Scientist, Raman Research Institute, Bengaluru	VITM	240
5	20.01.2018	‘Ancient light: the microwave background radiation and cosmology’	Prof. Mark Birkinshaw, Professor of Cosmology and Astrophysics, University of Bristol, UK	VITM	300
6	08.02.2018	‘Innovations’	Prof. Amaresh Chakrabarti, Chairman, Centre for Product Design & Manufacturing, Indian Institute of Science, Bengaluru	VITM	250
7	09.02.2018	How we are building a world made of Carbon Nanotubes in Bangalore	Bangalore’Shri. Gadhadhar Reddy, CEO No Po Nanotechnologies India Pvt Ltd	VITM	200
8	09.02.2018	‘Concept behind Innovations’	Shri. Sudeendra Koushik, CEO, PARSU & Chairman, I E E E Bangalore Chapter, Bengaluru	VITM	150
9	28.02.2018	Sir C V Raman Memorial Lecture on ‘Advances in Material Sciences’	Dr. Balasubramaniam Sundaram, Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru	VITM	220
10	16.03.2018	‘Innovation - Relevance and Invention’.	Dr. K P Lakshmi, Associate Professor, Dept. of Electronics & Communication Engineering, BMS College of Engineering, Bengaluru	VITM	300

RSC TIRUPATI

Sl. No.	DATE	TOPIC	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	21.06.2017	Importance of Yoga	Prof.Muralidhar Sarma,V.C Sanskrit Vidyapeet,Tirupati	RSCT	275
2	5.06.2017	Bird watch and Diversity	Sri.S.Karthik,Ornithologist,A P Wildlife Circle,Tirupati	RSCT	200
3	22.07.2017	Indian Space programme	Dr.A.K.Pathra,Director, NARL,Gadanki	RSCT	400
4	23.09.2017	Life & Works of Sir M.V	Prof.V.Durga Bhavani, V.C S P Mahila University, Tirupati	RSC T	200
5	10.11.2017	Role of science centres in the service of Society	Prof.P.V.Ranganayakulu Director, S. V. Museums, TTD	RSCT	325
6	03.03.2018	Innovations in Science	Prof.S.Vijayabhaskar Rao Director,RADAR Application Centre,Tirupati	RSCT	390
7	03.03.2018	Artificial Intelligence	Sri.Vidya Sagar, IBM,Bangalore	RSCT	375
8	03.03.2018	The Wonder of 3-D printing	Sri .Venkat Kamesh, Sri Vignan Technologies, Tirupati	RSCT	300
9	04.03.2018	My Technology	Brigadier Ganesh	RSCT	425
10	18.03.2018	Learning : A Primer for students	Prof. Alladi Mohan, HOD, Dept. of Medicine, SVIMS Hospital,Tirupati	RSCT	365

DSC GULBARGA

Sl.No.	Date	Topic	Name of the Speaker	Venue	Audience
1.	27.04.2017	'Creativity & Innovation'	Dr. M S Jogad Retired Professor of Physics Kalaburagi	DSCG	86
2.	06.05.2017	Brain Gym & Memory Improvements	Shri Narendra State President SIP Abacus Academy, Kalaburagi	DSCG	250
3.	05.06.2017	Connecting People to Nature	Prof. S R Mise PG Studies in Environmental Engineering PDA Engg. College, Kalaburagi	DSCG	200
4.	21.06.2017	Science of Yoga	Dr. Smita Kanmuse Associate Professor Hingulambika Ayurvedic College, Kalaburagi	DSCG	350
5.	11.07.2017	Family Planning: Empowering People, Developing Nations	Dr. Malhar Rao Malle, Secretary, St. John's Urban Family Welfare Centre, Kalaburagi	DSCG	250

6.	08.08.2017	Nuclear Energy	Prof. S. M. Hangodimath Dept. of Physics Gulbarga University Kalaburagi	DSCG	220
7.	15.09.2017	Engineering skills	Shri P. S. Mahagaonkar Architect & Engineers Kalaburagi	DSCG	400
8.	16.09.2017	Life protecting ozone layer	Prof. Prakash. K Chairman, Dept. of Environment Science Gulbarga University, Kalaburagi	DSCG	445
9.	21.09.2017	Communication & Information technology	Prof. Govind Poojar Head, Dept. of Computer Science N.V. Degree College, Kalaburagi	DSCG	220
10.	27.09.2017	Sustainable Tourism - A Tool for Development	Shri Dilip Kumar A Patil Lecturer, S. B. College of Tourism Kalaburagi	DSCG	220
11.	13.10.2017	Creative Ideas	Shri Zameer Ahmed Managing Director Silicon Technologies, Kalaburagi	DSCG	70
12.	07.11.2017	Life & Works of Sir C V Raman	Prof. B K Chalageri Retired HOD of Physics Kalaburagi	DSCG	200
13.	10.11.2017	Science for Global Understanding	Prof. S. M. Hangodimath Chairman, Department of Physics Gulbarga University, Kalaburagi	DSCG	158
14.	22.12.2017	Life & work of Srinivasa Ramanujan	Dr. J C Umavati Professor, Dept. of Mathematics Gulbarga University, Kalaburagi	DSCG	190
15.	22.12.2017	Fun Maths	Dr. Devika Asst. professor, Dept. of Mathematics Central University of Karnataka	DSCG	225
16.	06.01.2018	Biotechnology	Dr. Chandrakant Kelmani Dept. of Biotechnology, Gulbarga University, Kalaburagi	DSCG	205
17.	12.01.2018	Recent Developments in Science	Dr. Vivekanada M Jali Professor, Dept. of Physics Gulbarga University, Kalaburagi	DSCG	208
18.	20.02.2018	Innovations	Dr. Ravi Hegadi Director School of Computational Sciences, Solapur University Solapur, Maharashtra	DSCG	131
19.	20.02.2018	Mobile app development	Er. Zameer Ahmed Managing Director Silicon Technologies, Kalaburagi	DSCG	100
20.	21.02.2018	HAM Radio & Its applications	Shri Shivasharanayya Puranik Solapur	DSCG	150

DSC, TIRUNELVELI

SL NO	DATE	TOPIC	NAME OF THE SPEAKER	VENUE	AUDIENCE
1.	11.05. 2017	Secret of Ageing	Dr S. Sudhakar Head, Dept. of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli	DSCT	127
2.	05.06 2017	Connecting people to Nature	Shri A.Venkatesh I.F.S, Chief Conservator of Forests & Field Director, Kalakad Mundandurai Tiger Reserve, Tirunelveli	DSCT	185
3.	30.07 2017	Science Technology Engineering Arts Mathematics (STEAM)	Smt. Gowri Manohari Nagarajan, B.E., IBM, United States of America	DSCT	146
4.	08.08. 2017	Snake Conservation and Snakebite Mitigation	Mr.Romulus Whitaker, Herpetologist,U S A	DSCT	195
5.	28.08. 2017	Genetics and Regeneration	Dr Namashivayam Ganesh Pandian, Professor, Kyoto University, Japan	DSCT	138
6.	22.09. 2017	Clean & Green India	Dr R Mathivanan , MD, Arumbugal Trust, Tirunelveli	DSCT	168
7.	28.09. 2017	How to keep clean Environment	Dr D Sridhar, Rtd. Professor, The MDT Hindu College, Pettai	DSCT	122
8.	04.09. 2017	Human Responsibility for Environmental Protection	Dr Kalidasan, President, OSAI Trust, Coimbatore	DSCT	158
9.	12.10 2017	Eye Care for School Children	Dr. Meenakshi, MD, Paediatrician, Aravind Eye Hospital, Tirunelveli	DSCT	172
10.	20.10. 2017	Engineering of Powerhouse of the Cell	Dr Ganesh Namashivaya Pandian, Asst. Prof. & Principle Investigator, iCeMS, Kyoto University, Japan	DSCT	196
11.	10.11. 2017	Modern Trends in Television Broadcasting	Shri Navaneethakrishnan, Deputy Director (Engineering), Doordarshan, Tirunelveli	DSCT	156
12.	10.01. 2018	Basic Reasons for Cancer	Dr. S.Sudhakar, Prof. & Head, Dept. of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli	DSCT	138
13.	22.03. 2018	Nature for Water	Shri Segajothi, Secretary, Pasumai Iyakkam, Kovilpatti	DSCT	210

CREATIVE ABILITY CENTRE:**VITM, BANGALORE****LIST OF PROJECTS COMPLETED IN VACATION CAC:****ASTRONOMY**

Sl.No	Name of the Projects	Sl.No	Name of the Projects
1.	Zodiac Chart	2.	Angle Finder
3.	Telescope	4.	Star Chart
5.	Theodolite	6.	Ball Mirror

CHEMISTRY:

Sl. No	Name of the Experiments	Sl. No.	Name of the Experiments
1	Decantation	2	Evaporation
3	Filtration	4	Growing of Hypo Crystals
5	Growing of Copper Sulphate Crystals	6	Growing of Epsom salt Crystals
7	Endothermic Reaction – Potassium Nitrate	8	Endothermic Reaction – Freezing of water w/o ice
9	Exothermic reaction – fire w/o match sticks	10	Exothermic reaction – Alkali in water
11	Hydrogen Gas preparation	12	Preparation of Detergent Powder
13	Silver tree making	14	Oxygen Gas preparation
15	Test for Presence of alkali	16	Chlorine Gas preparation
17	Test for Presence of Fatty acid	18	Carbon Dioxide Preparation
19	Test for Presence of gases – Ammonia	20	Turmeric from two salts
21	Test for Presence of Copper in Brass	22	Magic letters on paper
23	Filter Paper reaction	24	Silver mirror Developing
25	Burn Paper w/o ash	26	Chemical Sun rise & Sun set
27	Test for presence of Acid	28	Elephant Toothpaste
29	Test for Presence of starch	30	Physical Separation of Mixtures
31	Test for Presence of Glucose	32	Chemical Separation of Mixtures
33	Test for Presence of gas – Co ₂	34	Shining of a Penny
35	Ferrous to ferric salt (Oxidation)	36	Making Silica Garden
37	Change the colour by shaking (Oxidation)	38	Magic tadpole
39	Magic Smoke	40	Foam snake
41	Preparation of synthetic Turmeric	42	Mercury Heart beat
43	Lighting under water		

ELECTRONICS ;

Sl. No	Name of the Projects	Sl.No	Name of the Projects
1.	Multitone Music Bell	2.	Disco Light

MATHEMATICS:

Sl. No	Name of the Projects	Sl. No	Name of the Projects
1.	Platonic Solids	2.	Bisection & Regular Solids
3.	Golden Ratio	4.	Algebra
5.	Trigonometry	6.	Tessellations

PHYSICS:

Sl.No	Name of the Projects	Sl. No	Name of the Projects
1.	Bimetallic Switch	2.	Bird in cage
3.	Hydraulic Jack	4.	DC Motor
5.	Static Electricity	6.	Wind Generator
7.	Electric Bell	8.	Infinity Images

RSC, TIRUPATI

LIST OF PROJECTS COMPLETED IN VACATION CAC:

Sl.No.	Name of the Project	Sl.No.	Name of the Project
1	Telescope making	23	Herbal park planning & Measurement
2	Sky Map	24	Nursery construction
3	Sun dial	25	Soil & vermi compost
4	Theodolite	26	Bottle pots making
5	T.S of Dicot Leaf	27	Grass bed & Aquatic pond
6	T.S of Dicot stem	28	Sowing of seeds
7	Types of Ovules	29	Story board writing
8	Aestivation in plants	30	Video editing software
9	Pollen grains in Tridax	31	Sample science film vedios
10	Resistors in series and parallel	32	Short film shooting
11	Capacitors in series and parallel	33	Electric Iron Box(Make& Remake)
12	Match box Microphone	34	Micro Oven(Make& Remake)
13	Hall effect Sensor(NPN&PNP)	35	Desktop computer(Make& Remake)
14	Relay using IR	36	Cycle(Make& Remake)
15	Motor sensor	37	Electrical junction box(Make& Remake)
16	Circuit using LDR	38	Pollen grains in Hibiscus
17	Fun Math Games	39	T.S.of Monocot Stem
18	Triangulation &Parallax method	40	T.S.of Monocot Leaf
19	Fun critical thinking activities	41	Stomata observation in Dicots
20	Origami in Mathematics	42	Stomata observation in Monocots
21	Space Mathematics	43	Rhizopus mycelium
22	Systematic Arrangement of pots	44	Grafting & Mulching

RSCT – LIST OF PROJECTS COMPLETED IN MUSEUM CAC

Sl. No.	Name of the Project	Sl. No.	Name of the Project
1	Mosquito Mapping	4	Drones(Quadraptor)
2	HAM Radio	5	Mosquito Larval Identification
3	Helicopter	6	Simple pendulum

DSC, GULBARGA CHEMISTRY:

Sl. No.	Name of the Project	Sl.No.	Name of the Project
1	Identification of Acids & Bases by Litmus	16	Combustion of Phosphorous
2	Identification of Acids & Bases by UI	17	Sublimation
3	Identification of Acids & Bases by MO	18	Hydrogen preparation
4	Identification of Acids & Bases by MR	19	Preparation & study of Oxygen
5	Naturalization Reaction	20	Changing colours by shaking
6	Acid-Base Titration	21	Blood without cut
7	Chemical Combination	22	Chemical Volcano

8	Chemical decomposition	23	Sun rise & sun set experiment
9	Chemical displacement	24	Formation of Ammonium Chloride
10	Double displacement	25	Electrolytic decomposition
11	Exothermic Reaction	26	Magic candle experiment
12	Endothermic Reaction	27	Traffic light experiment
13	Burning a paper without ash	28	Oxidation reaction
14	Action of HCl on metals	29	Reduction reaction
15	Action of HNO ₃ on metals		

PHYSICS :

Sl. No	Name of the Project	Sl. No	Name of the Project
1	Simple Electric Bell	9	Sympathetic swing
2	Simple Motor	10	Laws of Reflection
3	Ampere & Oersted Experiment	11	Thermal Expansion
4	Coulombs law	12	Simple Camera
5	Electrolysis	13	Magic box
6	Electromagnet	14	Wave motion
7	Bird in a cage	15	Fleming's left hand rule
8	Fleming's right hand rule	16	Image formation between two plane mirrors kept at different angles

ELECTRONICS :

Sl. No	Name of the Project	Sl. No	Name of the Project
1	Resistors in Series on bread board	7	Transistor as amplifier on bread
2	Resistors in Parallel on bread board	8	Transistor as oscillator on bread
3	Capacitors in Series on bread board	9	LED blinker on bread board
4	Capacitors in Parallel on bread board	10	Musical doorbell Using UM66
5	Diode as forward bias on bread board	11	Mini Tesla coil
6	Diode as reverse bias on bread board		

LIST OF PROJECTS COMPLETED IN MUSEUM CAC:

CHEMISTRY:

Sl No	Name of Project
1	Identification of acids & bases
2	Titration of acids & bases
3	Types of Chemical reactions
4	Exothermic reaction
5	Endothermic reaction
6	Action of acids on metals

7	Action of bases on metals
8	Electrolytic decomposition
9	Magic candle experiment
10	Action of Ferric chloride on Potassium thiocyanate
11	Redox reaction
12	Green volcano
13	Combustion of Red phosphorus
14	Sun rise & sun set experiment
15	Sublimation

ELECTRONICS:

SI No	Name of Project -
1	Resistors in Series on bread board
2	Resistors in Parallel on bread board
3	Capacitors in Series on bread board
4	Capacitors in Parallel on bread board
5	Electronic Organ
6	Musical Door bell
7	Police Siren
8	PCB Making
9	Optical switch
10	LED Blinker

DSC, TIRUNELVELI

ASTRONOMY:

SI.No	Name of the Projects	SI.No	Name of the Projects
1.	Aryabhata Satellite Model	2.	Star Chart
3.	Constellation Chart	4	Sun Dial

ELECTRONICS :

SI.No	Name of the Projects	SI.No	Name of the Projects
1.	Clap Switch	2.	Automatic street Light
3.	Electronic Bell	4.	Water level Indicator

SCIENCE TOY MAKING:

Sl. No	Name of the Projects	Sl. No	Name of the Projects
1.	Colour Shadow	2.	Static Electricity
3.	Cartesian Diver	4.	Boomerang
5.	Tangrams	6.	Flexagon
7.	Centre of Gravity	8.	Puzzle
9.	Sympahtetic Oscillation	10.	Waves

BUILD FROM SCRAP:

Sl. No	Name of the Projects	Sl. No	Name of the Projects
1.	Boat	2.	Windmill
3.	Safety Pouch	4	Straw Pump
5.	Basket from Bottle waste	6	Water Filter
7.	Flower Pot		

COMMEMORATIVE PROGRAMMES:

The following commemorative events were organised by arranging Open house Quiz, Sit and draw competitions, Model Presentation contest, Treasure Hunt contest, Elocution contest, Seminar, Science Shows, Video/Film shows, Model presentation competition etc.

VITM, BANGALORE

SI No	Name of the Programmes	Date
1	NCSM Foundation Day	4 th April 2017
2	World Earth Day	22 nd April 2018
3	National Technology Day	11 th May 2017
4	International Museum Day	18 th to 20 th May 2017
5	World Environment Day	5 th June 2017
6	International Day of Yoga.	21 st June 2017
7	52 nd Anniversary of the Museum	22 nd to 27 th July 2017
8	71 st Independence Day of India	15 th August 2017
9	156 th Birth Anniversary of Sir M. Visvesvaraya	15 th September 2017
10	World Food Day	16 th October 2017
11	World Wild Life Day	27 th October 2017
12	World Space Day	28 th October 2017
13	142 nd Birth Anniversary of Sardar Vallabhabhai Patel, 'Rashtriya Ekta Diwas'	31 st October 2017
14	The 2 nd International Science Centre & Science Museums Day	9 th and 10 th November 2017
15	National Mathematics Day	22 nd December 2017
16	National Science Week	23 rd to 28 th February 2018
17	International Women's Day	8 th March 2018

RSC, TIRUPATI

SI No	Name of the Programmes	Date
1	World Earth Day	22 nd April, 2017
2	National Technology Day	11 th to 17 th May 2017
3	World Environment Day	4 th to 5 th June 2017
4	Man Landing on the Moon	16 to 22 nd July 2017
5	Independence Day	15 th August 2017
6	World Ozone Day	10 th & 16 September 2017
7	National Unity Day	31 st October 2017
8	International Science Centre & Science Museum Day	10 th November 2017
9	Republic Day Science Quiz	26 th January 2018
10	National Science Week	22 nd to 28 th February 2018
11	International Women's Day	8 th March 2018
12	World Water Day	23 rd March 2018

DSC, GULBARGA

Sl. No.	Name of the Programme	Date
1	Birth anniversary of William Harvey	1 st April 2017
2	NCSM Foundation Day	4 th April 2017
3	World Health Day	7 th April 2017
4	World Earth Day	22 nd April 2017
5	National Technology Day	11 th May 2017
6	Birth anniversary of Sir Ronald Ross	13 th May 2017
7	International Museum Day	18 th May 2017
8	World Environment Day	5 th to 9 th June 2017
9	International Yoga Day	21 st June 2017
10	World Population day	11 th July 2017
11	Hiroshima Day	5 th to 8 th August 2017
12	Engineers' Day	15 th September 2017
13	World Ozone Day	16 th September 2017
14	Vigilance Awareness Week	30 th October 2017
15	Rashtriya Ekta Diwas	31 st October 2017
16	Birth anniversary of Sir C V Raman & Madam Curie	5 th to 7 th November 2017
17	International Museum & Science Centre day	8 th to 10 th November 2017
18	Ramanujan's Birth anniversary	20 th to 22 nd December 2017

19	34 th Anniversary of DSC Kalaburagi	6 th to 11 th January 2018
20	National Science Day	25 th to 28 th February 2018
21	International Women's Day	8 th March 2018
22	World Water Day	22 nd March 2018

DSC, TIRUNELVELI

Sl No	Name of the Programmes	Date
1.	NCSM Foundation Day	4 th April 2017
2.	World Earth Day	22 nd April 2017
3.	National Technology Day	11 th May 2017
4.	International Museum Day	17 th & 22 nd May 2017
5.	World Environment Day	5 th June 2017
6.	International Day of Yoga	21 st June 2017
7.	World Population Day	12 th July 2017
8.	World Photography Day	19 th August 2017
9.	Teacher's Day	11 th September 2017
10.	World Ozone Day	16 th September 2017
11.	Wildlife Week	5 th & 6 th October 2017
12.	World Sight Day	8 th October 2017
13.	World Space Week	10 th October 2017
14.	International Day for Natural Disaster Reduction	13 th October 2017
15.	Vigilance Awareness Week	30 th October to 4 th November 2017
16.	National Unity Day	31 st October 2017
17.	International Science Centre and Science Museums Day	10 th November 2017
18.	Birth Anniversary of Srinivasa Ramanujan	22 nd December 2017
19.	DSCT Anniversary Week	21 st to 27 th February 2018
20.	National Science Day	28 th February 2018
21.	International Wildlife Day	3 rd March 2018
22.	World Water Day	22 nd March 2018

COLLABORATIVE PROGRAMMES

The following events were held by organising Open house Quiz, Sit and draw competitions, Treasure Hunt contest, Elocution contest, Seminar, Science Shows, Video/Film shows, Science fairs, interactive sessions with scientists, Drama competitions and temporary exhibitions etc.

VITM, BANGALORE

SI No	Name of the Programmes	Collaborator
1	App Development Course on Android	I E E E, Bangalore
2	Science Circus	Australian High Commission, New Delhi
3	IEEE –VITM Distinguished Lecture	I E E E, Bangalore
4	Tamil Nadu State level Science Seminar	Directorate of School Education, Govt. of Tamil Nadu
5	Pondicherry State level Science Seminar	Directorate of School Education, Puducherry
6	Training programme on Conceptualizing and development of Science Demonstration Lectures	K S T E P S
7	Telangana State level Science Seminar	S C E R T, (Dept of Mathematics and Science) Hyderabad, Govt. of Telangana
8	Karnataka State level Science Seminar	Dist. Institute of Education & Training, Govt. of Karnataka
9	Andhra Pradesh State level Science Seminar	S C E R T, Govt. of Andhra Pradesh
10	Kerala State level Science Seminar	Director of Public Instructions, Govt. of Kerala
11	A workshop on 'Internet of things'	I E E E , Bangalore
14	31 st Southern India Science Fair	Education Departments of Southern Indian States Department of School Education, Government of Telangana Secunderabad
15	Public lecture on the topic 'Ancient light: the microwave background radiation and cosmology'.	British Council, Chennai Region

RSC, TIRUPATI

SI No	Name of the Programmes	Collaborator
1	Polio Vaccination programmes	SVIMS Hospital, SVRRR Hospital and Sri Padmavathi Nursing college, Tirupati & Municipal Corporation, Tirupati
2	Srujanosthavam(a Teacher Training Programme)	National Green Core, Tirupati, And DSO, Chottor, Chittoor District(A.P)
3	World Earth Day	A.P. Pollution Control Board, Tirupati
4	World Environment Day	A.P. Pollution Control Board, Tirupati
5	World Day to Combat Desertification	A.P. Pollution Control Board, Tirupati
6	Space Week(Man Landing on Moon)	National Atmospheric Research Laboratory, Gadanki
7	Randi suchoddam....Tharamandalam - a Radio programme	All India Radio(AIR), Tirupati
8	Science Seminars	District Educational Officer, Chittoor, Andhra Pradesh.
9	World Ozone Day	A.P. Pollution Control Board ,Regional Office, Tirupati
10	HAM Radio workshop was organised from 1-2 nd October,2017 in collaboration with	Academy of HAM Radio, Vijayawada.
11	Dr.K.V. Rao scientific quiz	Dr.K.V.Rao Scientific Society, Hyderabad
12	Anti-Pollution	A.P. Pollution Control Board, Tirupati
13	AdagandiThelusukondi - a Radio programme	All India Radio(AIR), Tirupati
14	National Science Week	Junior Chamber of International, Tirupati.
15	Special Sky Observation programmes	All India Radio(AIR), Tirupati

DSC, GULBARGA

SI. No.	Name of the Programme	Collaborator
1	Kalaburagi South Taluk level Science Seminar	DIET, Kamalapur, Kalaburagi
2	Kalaburagi North Taluk level Science Seminar	DIET, Kamalapur, Kalaburagi
3	Kalaburagi District level Science Seminar	DIET, Kamalapur, Kalaburagi
4	Kalaburagi South Taluk Level Science Drama	DIET, Kamalapur, Kalaburagi
5	Kalaburagi North Taluk Level Science Drama	DIET, Kamalapur, Kalaburagi
6	Kalaburagi District level Science Drama	DIET, Kamalapur, Kalaburagi

7	World Ozone Day	Karnataka State Pollution Control Board, RO, Kalaburagi
8	World Population Day	Urban Family Welfare centre, Kalaburagi
9	Rural IT quiz for school students	Office of the Deputy Director of Public Instructions, Kalaburagi
10	Kalaburagi District level Science Exhibition	DIET, Kamalapur, Kalaburagi
11	National Standard Examinations in Physics, Chemistry & Biology	Indian Association for Physics Teachers Pune
12	National Science Day	Aswini's Fabreca Stores, Kalaburagi

DSC, TIRUNELVELI

SI No	Name of the Programme	Collaborator
1	Swachh Bharath Awareness programme	National Green Corps, Tirunelveli
2	Swachh Bharath Awareness programme	Nehru Yuva Kendra, Tirunelveli
3	International Museum Day Exhibition	Nellai Numismatic Philatelic Association, Tirunelveli
4	World Environment Day	Kalakkad Mundandurai Tiger Reserve (KMTR), Tirunelveli
5	International Day of Yoga	Nellai City Manavalakkalai Mantram Trust
6	District Science Seminar Block Level	Department of School Education, Tirunelveli
7	District Science Semina District Level	Department of School Education, Tirunelveli
8	Special Popular Science Lecture on "Snake Conservation and Snakebite Mitigation"	KMTR Projects, Dept. of Forest, Govt. of Tamilnadu & ATREE Foundation, Tirunelveli.
9	World Photography Day 2017	Nellai Photo & Videographers Association, VGPG Club, Tirunelveli
10	District Science Drama	Chief Education Office, Dept. of School Education, Govt. of Tamilnadu.
11	Teacher's Day 2017	Chief Education Office, Dept. of School Education, Govt. of Tamilnadu.
12	Jawaharlal Nehru Science Exhibition	Chief Education Office, Dept. of School Education, Govt. of Tamilnadu.
13	Environmental Awareness Lecture cum Eco Conservator Award	ATREE (Ashoka Trust for Research in Ecology and Environment), Tirunelveli
14	Wildlife Week 2017	Kalakkad Mundandurai Tiger Reserve (KMTR), Dept. of Forest, Govt. of Tamilnadu
15	World Sight Day 2017	Aravind Eye Hospital, Tirunelveli
16	World Space Week 2017	ISRO Propulsion Complex, Mahendragiri

17	International day for Natural Disaster Reduction 2017	Chief Education Office, Dept. of School Education, Govt. of Tamilnadu
18	Mooligai Murtam	Ulaga Tamizh Maruthuvakazhkam, Tirunelveli
19	Special Science Drama Contest	Aavin Milk Co-Operative Ltd., Tirunelveli
20	Tamirabarani Water Bird Census	ATREE Foundation, Nellai Nature Club, Pearl City Nature Club
21	International Wildlife Day 2018	ATREE Foundation, Nellai Nature Club, Pearl City Nature Club
22	World Water Day 2018	ATREE Foundation, Nellai Nature Club, Pearl City Nature Club