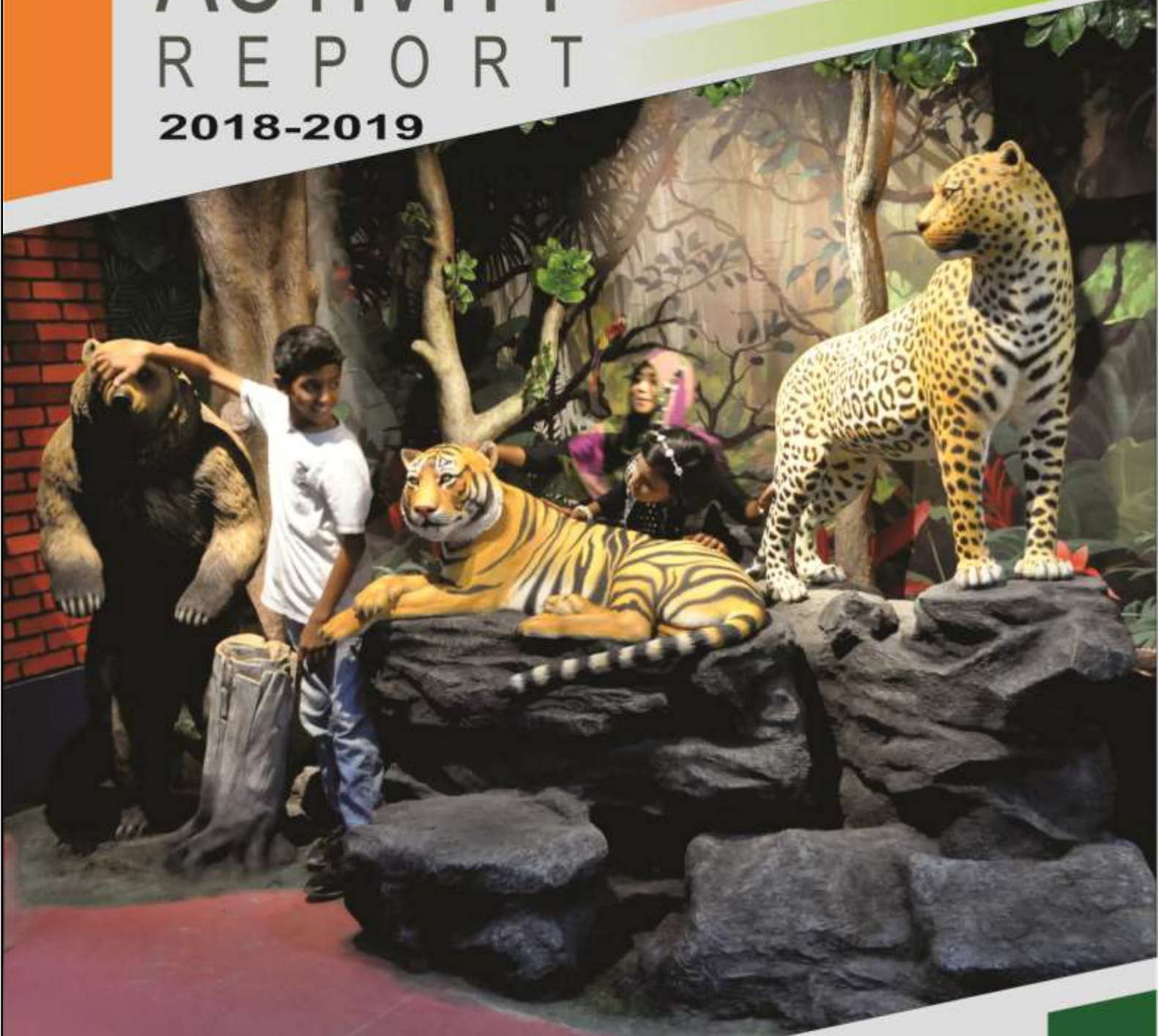


# ACTIVITY REPORT 2018-2019



**Visvesvaraya Industrial &  
Technological Museum**

Kasturba Road, Bengaluru - 560 001

RSC, Tirupati

DSC, Kalaburagi

DSC, Tirunelveli

# ACTIVITY REPORT

2018-2019



## VISVESVARAYA INDUSTRIAL & TECHNOLOGICAL MUSEUM

Kasturba Road, Bangalore - 560 001  
vitmuseum@gmail.com  
www.vismuseum.gov.in

## REGIONAL SCIENCE CENTRE

Near Alipiri Gate, Alipiri - Chittoor bye-pass  
Tirupati - 517 507  
rsctirupati@gmail.com

## DISTRICT SCIENCE CENTRE

Municipal Garden  
Kalaburagi - 585 103  
scienceglb@gmail.com

## DISTRICT SCIENCE CENTRE

N.H. No. 7, Kokkirakulam  
Tirunelveli - 627 009  
sciencecentrenellai@gmail.com  
www.dsctirunelveli.org.in

*With Best Compliments from:*

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Director  
Visvesvaraya Industrial &  
Technological Museum  
Kasturba Road  
Bangalore - 560 001

### **A. D. CHOUDHURY**

Director General  
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Sector- V, Block- GN, Bidhan Nagar  
Kolkata - 700 091

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## VISVESVARAYA INDUSTRIAL & TECHNOLOGICAL MUSEUM

A new gallery on 'Science for Kids' was developed by the museum for young children. The gallery is spread out over an area of 250 Sq Mts with interesting mechanical and digital interactives. The gallery also has participatory exhibits inviting children to play with as they enrich their physical and mental skills.

VITM organized various travelling exhibitions like 'The Future of Food – Pulses', Gandhi - Science, Technology & Innovation & Nobel Prizes, 2018'. The museum in association with India foundation for Arts developed an exhibition 'Talking devices' show casing the interesting Artefacts in the collection of the museum.

During the anniversary, a new Science Demonstration Lecture on the topic **Magnetic effects of Electric Current**' programme was launched.

**National Science Seminar on 'Industrial Revolution 4.0 (IR 4.0)** was held at the museum on 5<sup>th</sup> October 2018. The seminar was inaugurated by Prof. S Sadagopan, Director, International Institute of Information Technology (IIIT), Bangalore. 32 students from all over India deliberated on the above topic. Shri S. Rakesh, Chairman & Managing Director, Antrix Corporation Limited (ISRO), Bangalore was the Chief Guest during the valediction and distributed awards and prizes to the winners. A Student - Scientists interaction programme was also organised on 6<sup>th</sup> October 2018 for the participants of the Seminar.

The museum in association with the Australian High Commission, New Delhi organised a unique Workshop on "Maths and Computational thinking" from 9<sup>th</sup> to 16<sup>th</sup> October 2018. The workshop was inaugurated by Dr. S. Balachandra Rao, Hon. Director, Bharatiya Vidya Bhavan's Gandhi Centre of Science and Human Values, Bengaluru. The workshop was conducted by Dr. Stuart Kohlagen, **Professor, Australian National University and Director of Science and Learning at Questacon, Australia.** During the workshop several models and teaching aids on 'Mathematics and Computational thinking' were developed by the participants.

VITM in collaboration with Southern State Governments organised the **Southern India Science Drama Festival (SISDF)** and **Southern India Science Fair (SISF 2018)**. The drama festival was organised on 29<sup>th</sup> & 30<sup>th</sup> November 2018. The festival was inaugurated by Shri. Suresh Heblikar, Actor, Director & Film Producer, Bengaluru on 29<sup>th</sup> November 2018. The festival witnessed competitive participation from all the Southern States. The **Science Fair** was held from 7<sup>th</sup> to 11<sup>th</sup> January 2019 hosted by Govt. of Karnataka at St Joseph's India High School, Vittal Malya Road, Bangalore. The fair was inaugurated on 7<sup>th</sup> January 2019 by Shri. G. Parameshwara, Honorable Deputy Chief Minister of Karnataka. 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.

**'Experiencing Science through Museum Activities'** a new initiative of VITM was started in February 2019 by selecting 10 Govt. schools in Bangalore with the support of the Dept. of Education, Govt. of Karnataka. As part of the programme VITM organised Science Demonstration Lectures on Curriculum based topics like 'Effect of Magnetism on Electricity', 'Force & Pressure'. Hands on experience for the students to perform different

experiments taught in their classes, science model making, development of teaching aids and interactive sessions on various topics at the schools.

**Bangalore Science Film Festival** was held in the museum on 29<sup>th</sup> October 2018. Shri. Jayatheertha B V, Theatre activist, Director and Producer of Kannada Films Bangalore inaugurated the festival. Award winning science films of Golden Beaver Awards of 8<sup>th</sup> National Science Film festival of India organised by Vigyan Prasar, Guwahati University & NCSM at Guwahati during February 2018 were screened from 29<sup>th</sup> to 31<sup>st</sup> October 2018 for students and general public.

VITM organised a **Workshop on 'Science in Theatre'** at the museum from 23<sup>rd</sup> to 25<sup>th</sup> June 2018 in association with India Foundation for Art. Surabhi - a well known theatre troupe from Hyderabad formed the core group of resource persons for the Workshop. 35 students participated and about 1,000 students and general public witnessed the workshop.

VITM organised underprivileged children visit from neighboring Districts from December 2018 to March 2019. A guided tour to the galleries and facilities at the museum was given to the Children.

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 **National Technology Day, International Museums Day, International Day of Yoga, International Science Centre & Science Museums Day, National Mathematics Day, National Science Day** etc., with various programmes and activities for students, teachers and general public.

The Mobile Science Exhibition bus of VITM travelled through 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 2018-19 was an eventful year with the addition of HPT-32 Deepak Aircraft in the Science Park during Silver Jubilee Anniversary Week in September 2018.

The renovated Pre-Historic Life Park was opened to public on 8<sup>th</sup> February 2019 by Prof. S. Sudarshan Sarma, Vice-Chancellor, S.V. Vedic University, Tirupati.

The **Silver Jubilee Science Exhibition** was inaugurated on 23<sup>rd</sup> July 2018 by Smt. Mannuru Sugunamma, MLA, Tirupati. On this occasion **Prof. P.V. Ranganayakalu**, Director, S.V Museum, TTD, Tirupati delivered the First Silver Jubilee popular Lecture on 'Glorious 25 years of Regional Science Centre, Tirupati'.

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 "Industrial Revolution.4- Are we Prepared?" at the centre and at other venues.

**Centre level Quiz on 'Gandhian Life & Works'** was organised in the Centre on 3<sup>rd</sup> October 2018.

**Innovation Festival** was held at the Centre from 5<sup>th</sup> to 7<sup>th</sup> January 2019. As part of the festival Workshops on 'Fold Scope', 'Internet of Things', 'Terrakota' and 'Drone Technology', Challenges Corner, Do it Yourself, and interactive sessions were organised. In addition popular Science Lectures on the topics 'Start of E-Commerce', 'Innovations and Science', 'Grass Route Innovations' and 'Tissue Culture' were organised. About 10,050 students and general public participated. The fair attracted large number of grass root innovators from places in and around Tirupati, and they were encouraged to showcase and explain their innovation to the public.

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 Mobile Science Exhibition bus of RSC T travelled through the length and breadth of Kurnool and Kadapa districts of Andhra Pradesh & Telengana 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**

The Centre collaborated with Education Department of Karnataka to organize Taluk level and District level Science Seminars on the topic "Industrial revolution 4.0 – are we prepared" at the centre. The centre also worked with the Education Department to organize District level Science Drama contest and District level Science Fair for school students.

During the year DSC G organized travelling exhibition '**The wonderful world of Crystals**' and '**Light matters**'.

An **Innovation Festival** was organised at the centre during January 2019. Several innovators from in and around Gulbarga participated and displayed their innovative ideas and products. More than 4,000 students and general public visited the exhibition.

**Underprivileged Children visit** to the Centre was organised from December 2018 to March 2019. They were given special exposure to the facilities of the Science Centre and gallery visit.

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 Mobile Science Exhibition bus of DSC G travelled through Kalaburagi and neighboring 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 **New Gallery on 'Fun Science'** on 14<sup>th</sup> November 2018. Smt Shilpha Prabhkar Satish, District Collector, Tirunelveli inaugurated the Gallery.

The Centre associated with the School Education Department, Tamil Nadu to organize District Level Science Drama contest at the Centre.

During the year DSC T organized travelling exhibitions like **Light Matters, Statistics at Work & Nobel Prize Winners 2018'**.

**A Science Drama Workshop for Teachers on 'Conceptualisation & Staging of Effective Science Dramas'** was held on 29<sup>th</sup> August 2018. 52 Science teachers from 5 Educational Districts participated.

**A Teachers Training Programme** was organised in the Centre on 25<sup>th</sup> & 26<sup>th</sup> October 2018 for Govt. Primary School Teachers. 40 teachers from 6 Educational Blocks participated

**Centre level Quiz on 'Gandhian Life & Works'** was held on 3<sup>rd</sup> October 2018 at the Centre. 25 schools participated.

An **Innovation Festival** was held in January 2019. Smt Shilpha Prabhakar Satish, District Collector & Magistrate, Tirunelveli inaugurated the Festival. 38 Innovative projects by 89 participants were on display. Hands-on Workshop on the topics 'Palm Leaves Art', 'Paper Engineering' and Fabric Painting' was part of the festival.

**The Centres Anniversary Week** (Pop Science Fiesta) Celebrations 2019 was held from 22<sup>nd</sup> to 27<sup>th</sup> February 2019 with various programmes for students and general public.

DSC T 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.

**Underprivileged Children visit** to the Centre was organised from December 2018 to March 2019. They were given special exposure to the facilities of the Science Centre like 3D Shows, Digital Planetarium Shows and Science Shows etc along with a gallery walk.

The Mobile Science Exhibition bus of DSCT travelled through Erode, Karur, Madhurai, Virudh Nagar & Kanyakumari 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	Shri. R. Manigandan Project Coordinator	Shri. C. N. Laxminarayana District Science Officer	Shri. S Muthu 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, dsodsct@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	9.30 AM - 6.00 PM	9.30 A.M- 6.00 P M (10.00 A.M-6.30 PM. on Sundays)	9.30 AM - 6.00 PM	9.30 A.M - 6.00 PM
Closed on	Ganesh Chaturthi & Deepavali	Ganesh Chaturthi & Deepawali	Ganesh Chaturthi & Deepavali	Pongal & Deepavali
Admission Fee	<ul style="list-style-type: none"> <li>▪ Rs. 50/-per head for general public</li> <li>▪ Rs.25/- for students in organised groups</li> </ul>	<ul style="list-style-type: none"> <li>▪ Rs.25/- per head for general public</li> <li>▪ Rs.15/- for students in groups</li> </ul>	<ul style="list-style-type: none"> <li>Rs.15/- per head for general public</li> <li>Rs.10/- per head for organised school students</li> </ul>	<ul style="list-style-type: none"> <li>▪ Rs.15/- per head for general public</li> <li>▪ Rs.10/- for students in organised groups</li> </ul>
Inaugurated on	27 <sup>th</sup> July 1965	23 <sup>rd</sup> Sept. 1993	6 <sup>th</sup> January 1984	27 <sup>th</sup> February 1987
Total floor area in Sq.Mts.	11,700	4,797	2,080	2,660
<b>Staff Strength</b>				
Scientific	6	2	0	-
Technical	54	13	6	6
Non Technical	31	7	4	4

## 2. (b) EXPENDITURE:

Expenditure (Rs.in Lakh)	VITM, Bangalore	RSC, Tirupati	DSC, Gulbarga	DSC, Tirunelveli	Total
<b>Recurring</b>	733.16	175.78	68.90	141.79	1119.63
Revenue Receipt	489.74	49.87	27.17	54.92	621.70
<b>Non Recurring</b>					
General	831.52	111.61	88.39	70.41	1101.93
CCA	146.40	96.42	60.59	42.57	345.95
<b>Total Non Recurring</b>	<b>977.92</b>	<b>208.03</b>	<b>148.98</b>	<b>112.98</b>	<b>1,447.91</b>

## 2(C) VISITORS TO MUSEUM/CENTRE:

Name of Museum/Centre	VITM, Bangalore	RSC, Tirupati	DSC, Gulbarga	DSC, Tirunelveli
No. of School groups	3,149	974	892	745
No of Students in above	1,80,607	66,291	60,632	44,322
No. of Visitors to Special Programme	28,797	60,580	46,510	10,775
No of General Visitors	6,57,096	93,801	77,521	2,22,512
No. of Free entry (Activity Club members, defence, handicapped etc)	15,599	5,988	4,134	28,029
Total Visitors to Museum/Centre	8,82,099	2,26,660	1,88,797	3,05,638
Visitors to MSE including film shows	1,25,448	2,89,513	1,81,579	72,816
Visitors to Outreach Programmes	58,476	85,370	6,033	10,939
<b>Total No of visitors to Museum / Centre &amp; outreach Programme</b>	<b>10,66,023</b>	<b>6,01,543</b>	<b>3,76,409</b>	<b>3,89,393</b>

## 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
<b>VITM, Bangalore</b>	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

Name of the Museum/ Centre	Name of the gallery	Floor area in Sq. Mts.	Date of Inauguration	Date of major Renovation	Number of Exhibits
<b>RSC, Tirupati</b>	Fun Science	370	23.09.1993	-	39
	Our Senses	370	15.10.2005	-	42
	Illusion	370	17.12.2006	-	45
	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	-	-
<b>DSC Gulbarga</b>	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
<b>DSC, Tirunelveli</b>	Fun Science	120	16.01.2008	14 <sup>th</sup> November 2018	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:

**DSC, Tirunelveli:** Renovated Fun Science Gallery was inaugurated on 14<sup>th</sup> November 2018.

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

Sl 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	20	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	-
	Electricity & Magnetism (at VITM Bangalore)	VITM, Bangalore	20	2017	-
5.	Our Senses (at RSC T)	RSC, Tirupati	22	2014	-

**6. NEW TEMPORARY EXHIBITIONS (IN HOUSE DEVELOPMENT):**

**VITM:** 1) Nobel Prizes 2018

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

3) Talking Devices

**RSC T :** 1) 25 Years of RSCT

**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
<b>VITM, Bangalore</b>	Science Park - 800 Sq. Mtrs.	11	--	--
<b>RSC, Tirupati</b>	Science Park – I 4.5 Acres	58	23.9.1993	2
	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	-
<b>DSC, Gulbarga</b>	Science Park - 2.34 Acres	48	2.03.1995	-
	Prehistoric Animal Park - 0.03 acre	7	9.04.2012	-
<b>DSC, Tirunelveli</b>	Science Park &	84	27.02.1987	-
	Pre historic Life Park – Total 5.69 Acre	10	27.02.2012	-

**8. EXHIBIT DEVELOPMENT:**

Name of the Museum/Centre	VITM Bangalore	RSC Tirupati	DSC Gulbarga	DSC Tirunelveli
No. of Gallery Exhibits	55	17	-	-
No. of Park Exhibits	-	-	-	-
No. of Exhibits for Temporary Exhibition	12	-	-	-
No. of Exhibits for Mobile Science Exhibition	-	2	-	-
No. of Kits developed (for New Science Shows)	16	79	3	18
No. of Duplicate Kits (in-house)	-	1	1	657
No. of Duplicate Exhibits (in-house)	-	-	-	-
No. of Duplicate exhibits (outside agencies)	-	-	-	-
No. of Duplicate Kits (outside agencies)	-	-	-	-
No. of Exhibits Renovated- category (gallery/MSE/Temp Exhibition)	-	-	-	-
No. of Kits Renovated (mention category - gallery/MSE/Temp. Exhibition)	-	-	-	-
Total	83	99	4	675

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

# Mobile Science Exhibition



Mobile Science Exhibition organised by VITM



Mobile Science Exhibition organised by RSC T



Mobile Science Exhibition organised by DSC G



Mobile Science Exhibition organised by DSC T

## **9. COLLECTION OF ARTEFACTS:**

### **10. PLANNING:**

#### **VITM:**

1. Modernization of Biotechnology gallery
2. Modernization of Children's Science gallery (Spill over 2017-18)
3. Planning of BEL Gallery
4. Planning and fabrication of exhibits for FCI (To be funded by FCI)
5. Planning and execution of Innovation Hubs at Trichi, Coimbatore, and Puducherry
6. Catalytic support for Fun Science exhibits for other Science Centres (Separate fund to be provided from the projects )

#### **RSC T**

1. Gallery on "Non-Conventional Source of Energy" 20 exhibits-Phase-II-
2. Modernization of Evolution theme park

#### **DSC - G.**

1. Gallery on Human Biology-(Phase-II) -10 exhibits

#### **DSC - T**

1. Modernization of Fun Science Gallery (spill over of 2017-18)
2. Modernization of Evolution Theme park

## **11. MOBILE SCIENCE EXHIBITION PROGRAMME :**

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:

<b>Name of the Museum/ Centre</b>	<b>Name of the Vehicle/Unit</b>	<b>Theme of Exhibits</b>	<b>No. of Exhibition Days</b>	<b>Kms. travelled</b>	<b>No. of Exhibition Sites</b>	<b>No. of Visitors</b>
VITM Bangalore	Cauvery	Electricity & Magnetism	140	3,330	77	95,553
RSC Tirupati	Sapthagiri	Our Senses	138	2,393	68	2,50,547
DSC Gulbarga	Bheema	Man and Space	162	1,476	83	1,69,060
DSC Tirunelveli	Tamirabarani	Popular Science	118	2,955	65	72,816

## 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 a new Science Demonstration lecture on 'Magnetic effects of electric current during 53<sup>rd</sup> Anniversary week celebrations in July 2018.

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	465	15,222	--	--
	Chemical Reactions	1	60	2	145
	Force & Pressure	-	-	2	279
	Magnetic effects on electric current	3	530	2	104
RSC T	Acid, Bases & Salts	61	5,955	63	41,154
	Liquid Nitrogen shows	259	21,013	--	--
	Electricity & Magnetism	32	3,840	-	-
	Bio Science	14	2,465	-	-
	Anti Superstition Show	15	650	-	-
DSC G	Electricity & Magnetism	11	529	5	681
	Acids, bases & salts	10	481	2	284
	Science is fun	36	1,841	6	876
	Anti superstition shows	85	5,192	-	-
DSC T	Science Vs Miracle	57	2,949	-	-
	Electricity & Its Effects	22	1,461	-	-
	Cryogenics (Liquid Nitrogen)	26	1,105	03	1,215
	Science is Fun	22	972	-	-
	Sound	5	176	-	-

## SDL & Science Shows

53rd Anniversary celebration of VITM  
Science Demonstration lecture  
on Magnetic effects on Electricity



Science Demonstration lecture  
on Chemical Reactions at VITM



Out door Science show  
organised by RSC T



Science Demonstration lecture  
on Acids, Bases & Salts at DSC G



Out door Science show  
on Science is Fun organised by DSC T



# Science on a Sphere, Sky Observation Program



Science on a Sphere show at VITM



Sky Observation programme at VITM



Wright Brothers flyer simulator at VITM



Sky Observation programme at RSCT

Sky Observation programme at DSC G



Sky Observation programme at DSC T



**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	3 days on 22.5.18, 29.9.18 & 10.11.18	120	5
			98	2
			97	3
DSC G	Eco-walk at garden & Science Park of DSC G	One day 9 <sup>th</sup> November 2018	84	6

**12(c) ENVIRONMENT AWARENESS PROGRAMME:**

Museum / Centre	Venue of the Camp	Duration of Camp (Days & Date)	No of students	No of teachers
DSC Kalaburagi	DSC G	14 <sup>th</sup> & 15 <sup>th</sup> November 2018	-	78
DSC Kalaburagi	DSC G	8 <sup>th</sup> March 2019	145	25

**12 (d) SCIENCE ON A SPHERE:**

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	713	21,396

**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 aero plane simulating the ambience of Kill Devil Hills near North Carolina where Wright Brothers' flew their Air plane 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 used to built Wright Brothers' Flyer in 1913.*

Name of the Centre	Total No of visitors
VITM, Bangalore	15,330

**12(f) FILM SHOWS (VIDEO SHOWS):**

Name of the satellite Unit/Centre	No of film shows	Total No of visitors
VITM, Bangalore	7,904	2,34,067
RSC, Tirupati	57	6,852
DSC, Gulbarga	637	16,083
DSC, Tirunelveli	3,426	1,42,237

**12 (g) 3-D Shows**

Name of the satellite Unit/Centre	No of 3Dshows	Total No of visitors
VITM, Bangalore	3,366	1,27,944
RSC, Tirupati	397	8,607
DSC, Gulbarga	1,134	25,978
DSC, Tirunelveli	1,477	43,819

**12(h) POPULAR SCIENCE LECTURES:**

Venue	No. of Lectures	No of audience
VITM, Bangalore	17	3,048
RSC, Tirupati	16	4,512
DSC, Gulbarga	16	4,485
DSC, Tirunelveli	16	2,379

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	698	14,701
RSC, Tirupati *	2,061	66,264
DSC, Gulbarga *	1,057	38,411
DSC, Tirunelveli *	1,272	38,512

\* Digital Planetarium

**12(j) SCIENCE QUIZ:**

Name of the Museum	No of Quiz Contest held	No of participants	No of Audience
VITM, Bangalore	28	1,734	2,470
RSC, Tirupati	42	3,560	7,952
DSC, Gulbarga	43	2,536	1,762
DSC, Tirunelveli	50	3,373	2,850

## Science fair, Engg Fair & Innovation festivals

**ACTIVITY**  
**REPORT**  
2018 - 2019



Engineering Fair 2019 organised at VITM



32nd Southern India Science Fair organised by VITM in association with Dept of Education Govt. of Karnataka



Innovation Festival at RSC T



Dist. level Science fair organised at DSC G



Innovation festival at DSC G



Innovation festival at DSC T

**12(k) SKY OBSERVATION PROGRAMMES:**

Name of Museum	No of Programmes held	No of participants
VITM, Bangalore	35	4,658
RSC, Tirupati	72	5,785
DSC, Gulbarga	61	781
DSC, Tirunelveli	58	4,063

**12(i) VIDEO PROGRAMMES OR COMPUTER SOFTWARE/MULTIMEDIA PROGRAMMES DEVELOPED**

<b>VITM</b>	1. Signage software for 55" Video wall displayed at the museum entrance
	2. Video book software for Science for Kids Gallery
	3. Animal sounds software for Science for Kids Gallery
	4. Virtual Walkthrough of ground floor
	5. Virtual Walkthrough of space gallery
	6. Video programme – Video of Space Technology Gallery
<b>RSC TIRUPATI YOUTUBE CHANNEL Videos</b>	
01	Soluble & Insoluble substances
02	Effects of Plastics
03	Effects of cool drinks
04	Chemistry
05	Advantages & Disadvantages of Mobile phones
06	4-R principle
07	C.P.R Technique

**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/ Participants	No of science clubs participated	No of projects	No of visitors
<b>VITM</b>	St. Joseph's Indian High School, Bangalore 7 <sup>th</sup> to 11 <sup>th</sup> January 2019, <b>Southern India Science</b>	Zonal	265	268	--	188	25400

	<b>Fair</b>						
	VITM 1 <sup>st</sup> to 3 <sup>rd</sup> February 2019 <b>'Innovation Festival - 2019'</b>	Centre level	--	70	--	44	5,000
	VITM 15 <sup>th</sup> to 17 <sup>th</sup> March 2019 <b>Engineering Fair</b>	Centre level	23	350	--	121	7,000
<b>RSC T</b>	RSC T (Innovation Festival) 5 <sup>th</sup> to 7 <sup>th</sup> January 2019	Centre level	---	41 participants	-	34	10,050
<b>DSC G</b>	DSC G District Level Science Fair 31 <sup>st</sup> October 2018	District Level Science Fair	48	96	13	48	12,042
<b>DSC T</b>	DSCT Innovation Festival 2019 31 <sup>st</sup> January to 2 <sup>nd</sup> February 2019	State	-	89	-	38	7,800

### 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 **'Industrial Revolution 4.0 (IR 4.0) are we prepared?'**.

<b>Museum/ Centre</b>	<b>Venue &amp; Date</b>	<b>District/ Zonal/ State</b>	<b>No of students</b>	<b>No of Participating Schools</b>	<b>No of Audience</b>
<b>VITM Bangalore</b>	Lakshwdeep U T Level Science Seminar at Govt. Sen Sec School, Kavaratti 20 <sup>th</sup> August 2018	State	4	4	35
	Pondicherry State level Science Seminar at G. G Hr. Sec. School, Kadirkamam, Puducherry 28 <sup>th</sup> August 2018	State	12	12	80

## Science Seminar & Science Drama



National Science Seminar 2018 at VITM



Southern India Science Drama Festival at VITM



District Level Science Seminar at RSC T



District Level Science Seminar at DSC G

# Vacation Hobby Centre / Camp



Vacation Hobby Programme  
in Art & Science at VITM



Vacation Hobby Programme  
in Chemistry at VITM



Vacation Hobby Programme  
in Mathematics at VITM



Vacation Hobby Programme  
in Chemistry at RSC T

Vacation Hobby Programme  
in Chemistry at DSC G



Vacation Hobby Programme  
in Astronomy at DSC T



	Andhra Pradesh State level Science Seminar at GMC Balayogi Science Park, Elur, W G(Dist) 29 <sup>th</sup> August 2018	State	24	24	102
	Karnataka State Level Science Seminar at DIET, Bangalore Rural, RR Nagar, Bangalore 29 <sup>th</sup> September 2018	State	31	31	80
	Kerala State level Science Seminar at M D Seminary Higher Secondary School, Kottiyam, Kerala 15 <sup>th</sup> September 2018	State	28	28	60
	Tamil Nadu State level Science Seminar at Govt. Girls Secondary School, Ashoknagar, Chennai 28 <sup>th</sup> August 2018	State	29*	29	100
	<b>VITM National Science Seminar 2018</b> 5 <sup>th</sup> October 2018	National	32	32	600
<b>RSC Tirupati</b>	RSC, T 9.08.2018	District	20	20	100
<b>DSC Gulbarga</b>	DSC Kalaburagi 28 <sup>th</sup> August 2018	South Taluk	11	11	110
	DSC Kalaburagi 29 <sup>th</sup> August 2018	North Taluk	15	15	115
	DSC Kalaburagi 31 <sup>st</sup> August 2018	District	16	16	181

**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	-	2	105	-
No. of Creative Ability Centres	-	1	4	-
No. of Students involved in above	-	75	157	-
No. of Vacation CAC in museum	14	12	4	4
No. of Students involved in above	248	250	157	90
No. of Projects completed in above	758	55	125	36

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	16 <sup>th</sup> to 27 <sup>th</sup> April 2018	Art & Science, Chemistry, Electronics, Mathematics, Physics & Robotics	104
		7 <sup>th</sup> 18 <sup>th</sup> May 2018	-----do-----	93
		16 <sup>th</sup> to 20 <sup>th</sup> April 2018 & 23 <sup>rd</sup> to 27 <sup>th</sup> April 2018	Workshops on 'Arduino'	41
RSC T	RSC T	30 <sup>th</sup> April to 6 <sup>th</sup> June 2018	Physics, Herbal Gardening, Chemistry, Arts & Science, Astronomy, Robotics, Painting, Origami, Electronics, Mathematics, Biology, Science Film Making(Computer).	250
		10 <sup>th</sup> February 2019	Astronomy (Bapu Khagol Mela)	75
DSC G	DSC G	2 <sup>nd</sup> to 16 <sup>th</sup> April 2018	Electronics, Physics, Chemistry & Astronomy	157
DSC T	DSC T	23 <sup>rd</sup> to 30 <sup>th</sup> April 2018	Science Toy Making (2 Batches), Astronomy, Electronics	90

**13(e) SIT & DRAW / ESSAY WRITING:**

Name of the Museum/ Centre	Venue	Date	Occasion	No. of Participants	Subject
Sit & Draw Contest	VITM	21 <sup>ST</sup> June 2018	International Day of Yoga	25	Yoga
Sit & Draw Contest	RSC T	22 <sup>nd</sup> April 2018	World Earth Day	150	Reduce plastic& save Earth
		3 <sup>rd</sup> June 2018	Environment Week	360	Environment
		22 <sup>nd</sup> July 2018	Man Landing on Moon	300	Scaling down of solar system
		16 <sup>th</sup> September 2018	World Ozone Day	450	Ozone protection & swachh Bharat
		23 <sup>rd</sup> September 2018	RSCT Silver Jubilee week	275	IR-4
		24 <sup>th</sup> February 2019	National Science Week	300	Jai Jawan & Jai Kisan
Sit & Draw	DSC G	18 <sup>th</sup> May 2018	International museum Day	110	Science Museums

<b>Contest</b>		5 <sup>th</sup> June 2018	World Environment Day	185	'Nature, Greenhouse effect & Environmental pollution'
		21 <sup>st</sup> June 2018	International Day of Yoga	133	Yogasanas – postures & their names'
		16 <sup>th</sup> Sept. 2018	World Ozone Day	162	'Our Environment, Earth & its atmospheric layers' and 'Green House effect & Global Warming'
		8 <sup>th</sup> to 10 <sup>th</sup> November 2018	3rd International Science Centre and Science Museum Day	108	Science for peaceful purposes & Space exploration
		6 <sup>th</sup> to 11 <sup>th</sup> January 2019	35 <sup>th</sup> Anniversary celebrations	78	Nature, Space exploration, Energy resources,
		25 <sup>th</sup> to 28 <sup>th</sup> February 2019	National Science Day	127	Sir C V Raman & Raman effect
<b>Sit &amp; Draw Contest</b>	DSC T	11 <sup>th</sup> May 2018	National Technology Day 2018	128	Technology at Home & Technology that changed the World
		14 <sup>th</sup> June 2018	World Blood Donor Day	285	Blood Connects us all
		1 <sup>st</sup> August 2018	Oral Hygiene Day	289	Tooth Brush Drawing & Art with Dental Floss
		7 <sup>th</sup> October 2018	World Sight Day	49	Eye Care Everywhere
		19 <sup>th</sup> November 2018	International Science Centre & Science Museum Day 2018	756	Future Road Transport & Science in Everyday Life
		22 <sup>nd</sup> November 2018	Alcohol Avoid Awareness Programme	64	Avoid Alcohol
	8 <sup>th</sup> March 2019	International Museum Day	126	The Women who Inspired me the Most	
<b>Essay Writing Contest</b>	RSC T	2 <sup>nd</sup> June 2018	Environment Week		Beat plastic pollution
		17 <sup>th</sup> July 2018	Man Landing on Moon	265	Indian space programme
		18 <sup>th</sup> September 2018	Swachh Bharat Pakwada	200	Clean India - Green India

		31 <sup>st</sup> October 2018	Rastriya Yakta Diwas	100	Sardar Vallabhai Patel-Role in Uniting India
		3 <sup>rd</sup> November 2018	Vigilance Awareness Week	120	Eradicate Corruption
		26 <sup>th</sup> February 2019	National Science Week	150	Life and works of C.V Raman
<b>Essay Writing</b>	DSC G	6 <sup>th</sup> June 2018	World Environment Day	38	plastic boon or bane'
		7 <sup>th</sup> July 2018	World Population Day	42	Population growth - Environmental & Social problem
		6 <sup>th</sup> and 9 <sup>th</sup> Aug. 2018	Hiroshima & Nagasaki Day	34	Renewable energy resources'
		15 <sup>th</sup> Sept. 2018	Engineers' Day	47	life & works of Sir M V
		16 <sup>th</sup> to 30 <sup>th</sup> September 2018	Swachhta Pakhwada	28	Clean India - Green India
		16 <sup>th</sup> to 30 <sup>th</sup> September 2018	Hindi Pakhwada	13	Role of Science Centre in school Education
		29 <sup>th</sup> Oct. 2018	Vigilance Awareness week	22	Corruption free India
<b>Essay Writing</b>	DSC T	14 June 2018	World Blood Donor Day	81	Blood Connects us all
		22 November 2018	Alcohol Avoid Awareness Programme	33	Avoid Alcohol

#### 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.

Sl. No.	Venue of the Programme	Period of the Programme Date From & to	No. of Teachers trained	No. of teaching aids Developed
1	VITM	23 <sup>rd</sup> & 24 <sup>th</sup> July 2018	60	--
2	RSC Tirupati	23 <sup>rd</sup> February 2019 & 7 <sup>th</sup> , 11 <sup>th</sup> , and 12 <sup>th</sup> March 2019	72	64
3	DSC Gulbarga	24 <sup>th</sup> July 2018	80 (Maths)	-
4	DSC Gulbarga	25 <sup>th</sup> July 2018	78	-

# Computer Training & Teachers Training



Training in Maths and Computational thinking at VITM



Training in 'Arduino' at VITM



Teacher Training Programme in Physics at VITM



Teachers Training Programme on Science Toy Making at DSC G

Computer Training Programme for Rural School Children organised at RSC T



Teacher Training Programme in Physics at RSC T

Teacher Training Programme at DSC T



# Community Programme

Gallery walk organised for Under Privileged Children at VITM



Science Show at VITM



Gallery Walk for Underprivileged Children at RSC T

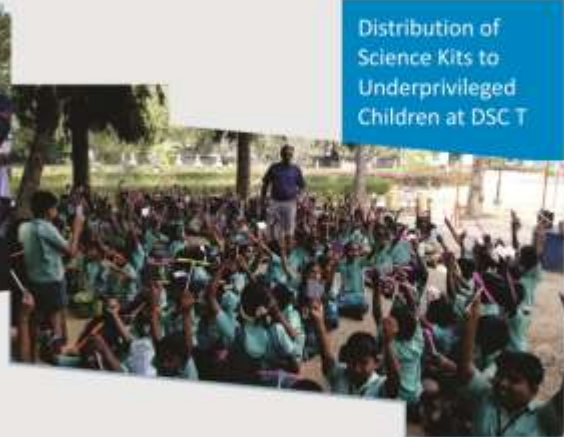


Programme for Specially abled at RSC T

Demonstration of Fire extinguisher at DSC G



Distribution of Science Kits to Underprivileged Children at DSC T



5	DSC Gulbarga	28 <sup>th</sup> & 29 <sup>th</sup> Nov. 2018	48	17
6	DSC Gulbarga	15 <sup>th</sup> February 2019	65	65
7	DSC Gulbarga	25 <sup>th</sup> February 2019	60	28
8	DSC- Tirunelveli	23 <sup>rd</sup> & 24 <sup>th</sup> August 2018	33	315
9		25 <sup>th</sup> & 26 <sup>th</sup> October 2018	40	360

(b) **COMPUTER TRAINING PROGRAMME:**

Name of the Museum/ Centre	No of Programmes	Duration	No. of participants	Subject
VITM	1	18 <sup>th</sup> to 20 <sup>th</sup> May 2018	20	App Development Course on Android operating system
RSC Tirupati	2	29 <sup>th</sup> March 2019 & 31 <sup>st</sup> March 2019	47	MS Office, Power point, Internet Explorer,
DSC Gulbarga	1	2 <sup>nd</sup> to 16 <sup>th</sup> April 2018	20	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-2018) 29 <sup>th</sup> & 30 <sup>th</sup> November 2018	80	1	96	1320
RSC T	RSC T	Swachh Bharat Drama contest, 22 <sup>nd</sup> September 2018	Centre Level	1	55	295
DSC G	DSC G	DSC Kalaburagi	District Level Science Drama	14	1	48
DSC T	DSC-T	Science Drama Workshop for Teachers on 'Conceptualization & Staging of Effective Science Dramas' 29 <sup>th</sup> August 2019	07	02	29	251

**(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
<b>VITM</b>	1	Programme for Under privileged children's Makkala Habba (Children's Festival) and Children's Day	VITM	10 <sup>th</sup> , 11 <sup>th</sup> , 14 <sup>th</sup> November 2018	1,025
<b>RSC T</b>	1	International Day of Yoga	RSC T	21 <sup>st</sup> June.2018	560
	2	Vanam–Manam programme	RSC T	3 <sup>rd</sup> November 2018	250
	3	Swatch Bharat Pakhwada	RSC T	16th September 2018	2120
	4	World AIDS Day (Week)	RSC T	1 <sup>st</sup> to 6 <sup>th</sup> December 2018	4,570
	5	World Ozone Day	RSC T	16 September 2018	1,075
	6	Special Sky observation	RSC T	19 <sup>th</sup> February 2019	20
	7	Workshop on TDS provisions & procedures	RSC T	25 <sup>th</sup> October 2018	310
	8	Brain Awareness Week	RSC T	11-17 <sup>th</sup> Mar 2019	4,800
	9	Earth Hour	RSC T	30 <sup>th</sup> March 2019	250
<b>DSC G</b>	1	Interactive session on 'Eclipse - Myths and beliefs'	DSC G	27 <sup>th</sup> July 2018	235
	2	Implementation of laws on Environmental pollution & protection	DSC G	14 <sup>th</sup> & 15 <sup>th</sup> Nov 2018	78
<b>DSC T</b>	1	Swachhata Samaroh	DSC T	6 <sup>th</sup> May 2018	498
	2	National Siddha Day	DSC T	26 <sup>th</sup> December 2018	1,560
	3	Palm Leaves Workshop	DSC T	1 <sup>st</sup> February 2019	73
	4	Fabric Painting Workshop	DSC T	2 <sup>nd</sup> February 2019	32
	5	Kaivinaikalaingarkal programme	DSC T	16 <sup>th</sup> March 2019	590



## Travelling exhibitions



Exhibition on 'Talking Devices' at VITM



Exhibition on 'Gandhi - Science, Technology & Innovation' at VITM



Exhibition on Pulses at VITM



Silver Jubilee Exhibition at RSC T



Travelling Exhibition 'Light Matters' at DSC G



Traveling Exhibition 'Crystals' at DSC G



Travelling Exhibition 'Light Matters' at DSC T



Travelling Exhibition 'Statistics at Work' at DSC T

## 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	13
RSC, Tirupati	16
DSC, Gulbarga	22
DSC, Tirunelveli	21

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	The Future of Food – Pulses'	11 <sup>th</sup> May to 15 <sup>th</sup> June 2018	1,05,000	NCSM	30	6
	'Nobel Prizes – 2018'	6 <sup>th</sup> December 2018 to 31 <sup>st</sup> March 2019	1,48,000	--	6	--
	'Talking Devices'	15 <sup>th</sup> to 28 <sup>th</sup> February 2019	46,900	--	--	15
	Gandhi - Science, Technology & Innovation	28 <sup>th</sup> February to 10 <sup>th</sup> March 2019	15,000	--	15	--
RSC T	25 years of RSCT (Silver Jubilee celebrations)	23 <sup>rd</sup> July 2018 & is continuing	1,23,176	----	24	4
DSC G	The wonderful world of Crystals'	4 <sup>th</sup> June to 10 <sup>th</sup> August 2018	5,620	NCSM	32	8
	Light matters	30 <sup>th</sup> August to 24 <sup>th</sup> Oct. 2018	5,989	NCSM	36	11
DSC T	Light	9 <sup>th</sup> April 2018 to 30 May 2018	28,300	RSC T	26	03
	Statistics at Work	22 <sup>nd</sup> February 2019 to 31 <sup>st</sup> March 2019	22,900	GSC, Goa	29	04

### 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	16
RSC, Tirupati	17
DSC, Gulbarga	14
DSC, Tirunelveli	37

### 19. LIBRARY & INFORMATICS:

Name of the Museum/Centre	Item	Total holding as on 01-04-18	No. Acquired during the year 2018-2019	No. Written off during the Year 2018-2019	Net holding as on 31-03-19
VITM	Books	11,053	18	-	11,071
	Journals	6	5**	-	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	396	-	-	396
	Journals	3	-	-	3
	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	1165	23	-	1188
	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	NSS 2018 Poster	Multi colour offset printing	5,000	29,120.00
	NSS 2018 folder	Multi colour offset printing	6,000	19,712.00
	NSS 2018 Souvenir 64 Pages	Multi colour offset printing	500	49,500.00
	Publicity Poster	Multi colour offset printing	4,000	11,760.00
DSC G	Pamphlets	Digital print & Offset print	4,000	6,000.00

## 21. CONSTRUCTION:

Name of the Unit	Name of the work	Tender Value of Work * (Rs. In lakhs)	Date of Commencement	Date of Completion
VITM	Electrical rewiring in Science for kids Gallery	1.80	04-09-2018	17-09-2018
	Modernisation of goods elevator	20.04	December 2019	In progress
	AMC work sanitary, plumbing and civil works at VIMSA and VITM for year 2018-19	8.08	20-07-2018	Work in progress
	Miscellaneous works at VITM & VIMSA	1.95	04-06-2018	18-07-2018
	Repair of chajjas at VITM	4.66	19-07-2018	15-02-2018
	Modernization of 2nd floor visitors toilet at VITM	8.85	13-08-2018	11-10-2018
	Painting work of VITM staff canteen VITM,	0.52	06-06-2018	12-06-2018
	Modernization of General dormitory at VITM,	7.55	03-12-2018	31-01-2019
	Modernization of MWS toilet at VITM,	9.93	11-10-2018	20-12-2018
	Miscellaneous Civil works at CSG of VITM,	2.00	05-09-2018	14-09-2018
	Modernization of Auditorium false ceiling and floor at VITM,	10.54	11-12-2018	29-01-2019
	Laying of PVC flooring at CSG of VITM,	1.84	04-03-2019	13-03-2019
	Providing waterproofing treatment on the terrace of VIMSA (Type-II) Quarters	4.66	09-07-2018	07-08-2018
	Relocation of gate and providing storm water drain at B-Block of VIMSA,	24.81	07-02-2019	Work in progress
Construction of Sub-Regional Science Centre Rajahmundry	6.90	23-01-2019	Work in progress	

<b>RSC T</b>	SITC of MRL elevator (Lift)	18.00	July 2018	March 2019
	Construction of PH toilet	2.19	08-08-2018	20-09-2019
	Providing vitrified tiles at PSG, SDL, conference room and Office	9.99	17-09-2018	15-11-2018
	SITC of fire fighting systems	26.42	04-12-2018	29-03-2019
	Civil works in connections with SITC of lift	2.02	07-02-2019	07-03-2019
<b>DSC G</b>	SITC of MRL elevator (Lift)	16.02	January 2019	In progress
	Construction of telescope room at terrace	2.66	30-06-2018	27-07-2018
	Modernization of toilet in new Science Park	4.99	27-08-2018	24-09-2018
	Construction of toilet in old Science park	9.05	17-09-2018	15-11-2018
	Civil works for SITC of MRL lift for PH visitors	9.76	05-12-2018	10-03-2019
<b>DSC T</b>	Electrical installation works in Prehistoric Park	4.57	27-02-2018	25-03-2019
	Providing vitrified tiles for office block flooring	4.30	23-06-2018	21-07-2018
	Providing SS Railing at main entrance	4.01	08-08-2018	22-09-2018
	Construction of Cloak room	4.23	27-11-2019	23-01-2019
	Modernization of Pre-Historic Park Civil works	4.95	27-02-2019	27-03-2019
	SITC of fire fighting systems	7.40+ Tax	27-05-2019	Work in progress

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

<b>Museum / Centre</b>	<b>Name of the Equipment</b>	<b>Date of procurement</b>	<b>Cost (Rs)</b>
<b>VITM</b>	15" Photo Frame With LED Display	16.04.2018	1,74,009.00
	15" Photo Frame With LED Display	25.04.2018	1,74,009.00
	Desktop Computer Make: Lenovo 510S	03.05.2018	.42,000.00
	UPS Offline 2KVA	03.05.2018	.18,290.00
	HP Color Laser Jet Pro Printer M254DW	15.05.2018	33512.00
	Creative Cloud Software	20.06.2018	.67,260.00
	Projection Mapping Software	23.08.2018	47790.00
	32" Monitor Make : Panasonic	11.09.2018	81,869.00
	Short Throw Projector With 5500 Lumens Lens 5Mts VGA/AV Cable	12.09.2018	.5,35,124.00
	UPS 1KVA	27.03.2019	.44,477.00
	Offline UPS 2KVA	29.03.2019	76,110.00
	43" LED Monitor	29.09.2018	2,42,130.00
	Desktop Computer with 21.5" Monitor	30.10.2018	2,73,675.00
	LED Multimedia Projector	10.01.2019	89,695.00
	Casio LED Multimedia Projector	31.01.2019	2,34,000.00
	Ultra Short Throw Projector	25.02.2019	4,50,600.00
	Casio Ultra Short Throw Projector	30.01.2019	7,51,000.00
	I.R. Bullet Camera	08.08.2018	32,025.00
	Desktop Computer Make: Lenova 22" Touch Screen Monitor	30.08.2018	71,232.00
	Desktop Computer Make : Lenova 43" Monitor	30.08.2018	1,23,800.00
	LED Tv 24"	29.03.2019	74,200.00
	Borosilicate Glass Tube 6" dia	03.12.2018	15,340.00
	55" LED TV	31.10.2018	1,77,380.00
	43" LED Tv	06.02.2019	1,36,101.00
Desktop Computer with 21.5" Monitor	14.02.2018	3,28,720.00	

	55" LED Tv	14.02.2019	61,000.00
	Ahuja Amplifier TZA 4000 DP	26.03.2019	.23,093.00

<b>Museum / Centre</b>	<b>Name of the Equipment</b>	<b>Date of procurement</b>	<b>Cost (Rs)</b>
<b>RSC T</b>	LED TV 40" 2 No.s	17.5.2018	45,000.00
	All in one PC-1 No	17.5.2018	76,000
	Binoculars 3 No.s(19,470 each)	17.5.2018	58410.00
	22"Touch Screen Monitor-3 No.s (18,900 Each)	17.5.2018	37800.00
	3-D printer-1 No	18.6.2018	3,776.00
	Cut off Machine -1 No	23.6.2018	8,400.00
	1.5 HP Sub mercible pump-1 No	24.7.2018	22,920.00
	Samsung LFD TV-2 No.s	04.8.2018	99,058.00
	HP Desktop-3 No.s	04.8.2018	1,99,500.00
	Compressor 3Ton 1-No	30.8.2018	22,420.00
	125mm Marble Circular Saw cutter-1 No	04.10.2018	3,250.00
	LED Monitor-1 No	08.10.2018	7,500.00
	5 Core Rock Garden speaker 1 N0	20.11.2018	5,249.00
	5 Core mushroom water proof speaker 1 N0	20.11.2018	5,599.00
	55"Samsung TV -1 No	25.9.2018	88,690.00
	TVSE MSP450 star printer-1 No	04.2.2019	11,750.00
	Samsung LED TV-1 No	27.2.2019	47,656.00
	LG LED TV - 3 No.s	27.2.2019	1,36,101.00
	Samsung 43"TV - 2 No.s	19.3.2019	69,760.00
	Samsung 55"TV - 1 No.	19.3.2019	71,940.00
	Desktop HLBS - 5 No.s	19.3.2019	3,28,720.00
	UST Projector-1 No	27.3.2019	1,56,656.00

	Water Tanks: 5000,2000,1000- Total-3 No.s	28.3.2019	60,900.00
	UPS Numeric-1 No	29.3.2019	96,760.00
	Light Fittings-10 No.s	29.3.2019	35,625.00

<b>Museum / Centre</b>	<b>Name of the Equipment</b>	<b>Date of procurement</b>	<b>Cost (Rs)</b>
<b>DSC G</b>	Blue Star AC with Stabilizer	20.6.2018	46000.00
	Desktop Lenovo	14.9.2018	50800.00
	Viewsonic Monitor	14.9.2018	20432.00
	Desktop Lenovo	14.9.2018	50800.00
	LG LCD Monitor/TV	14.9.2018	73000.00
	Bullet Camera with cable and switch – 2nos.	21.9.2018	64327.00
	Electric Geiger for Guest House	17.10.2018	8100.00
	Solar Street light – 12 Nos.	2.1.2019	1,98,000.00

<b>Museum/ Centre</b>	<b>Name of the equipment</b>	<b>Date of procurement</b>	<b>Total Cost(Rs.)</b>
<b>DSC T</b>	Air Conditioner 04 nos.	December 2018	1,60,000.00



### **23. 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	Pradeep Golasangi	Tech 'A'	Tech 'A' Draughtsman	Level-2	25.03.2019	19,900	SSLC, ITI (Draughtsman)	01.04.1981
2	Chaya Nethravathi	Admin	O A (Gr.III)	Level-2	22.03.2019	19,900	B.Com	19.05.1994
3	Bharath Simha Reddy	Admin	O A (Gr.III)	Level-2	28.03.2019	19,900	B.Sc, PGDCA	03.04.1994
4	Mahesh Kumar	Admin	O A (Gr.I)	Level-6	09.10.2018	35,400	B.Sc, RSCIT	05.07.1995

### **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	B. R. Viswanath	Edu. Officer 'C'	Edu. Officer 'D'	85,800	88,700	12.01.2017
2	R. Venkateswarlu	Edu. Officer 'B'	Edu. Officer 'C'	69,200	71,800	10.07.2016
3	K. Navaram Kumar	Curator 'B'	Curator 'C'	69,700	71,800	01.07.2017
4	Shaik Rafi	Curator 'B'	Curator 'C'	61,300	67,700	14.03.2019
5	C. N. Laxminarayana,	Edu. Officer 'C'	Edu. Officer 'D'	85,800	91,400	15.03.2019
6	R. Gopalakrishna	Edu. Officer 'C'	Edu. Officer 'D'	85,800	91,400	15.03.2019
7	M.B Thara	Technical Officer. 'C'	Technical Officer. 'D'	83,300	88,700	15.03.2019
8	B.V Zacharia	Technician 'F'	Technician 'G'	64,100	67,200	15.10.2018
9	C. Kumaraswamy Asari	Technician 'F'	Technician 'G'	62,200	65,200	10.07.2018
10	S. Gopinath	Technician 'E'	Technician 'F'	56,900	58,600	13.05.2018
11	E. Subramanian	Technician 'E'	Technician 'F'	55,200	56,900	16.05.2018

12	N. Narayana	Technician 'E'	Technician 'F'	55,200	56,900	30.04.2018
13	Bore Gowda	Technician 'E'	Technician 'F'	55,200	56,900	24.04.2018
14	N. Madhu	Technician 'E'	Technician 'F'	53,600	56,900	24.04.2018
15	H. Dinesh Singh	Technician 'E'	Technician 'F'	53,600	56,900	28.05.2018
16	V. Devendran	Technician 'E'	Technician 'F'	53,600	55,200	27.04.2018
17	G. Francis	Technician 'E'	Technician 'F'	53,600	56,900	24.04.2018
18	S. Ramamoorthi	Technician 'E'	Technician 'F'	55,200	56,900	24.04.2018
19	S. Vadiraj	Technician 'E'	Technician 'F'	55,200	56,900	02.05.2018
20	K. Mohanbabu	Technician 'E'	Technician 'F'	55,200	56,900	06.06.2018
21	S. Chellaswamy	Technician 'E'	Technician 'F'	53,600	56,900	24.04.2018
22	Shaik Md.Haneef	Technician 'E'	Technician 'F'	55,200	56,900	28.05.2018
23	G.S Anjaneyalu	Technician 'E'	Technician 'F'	52,000	53,600	24.04.2018
24	Ramesh Shaw	Jr. Steno	Sr. Steno	37,000	38,700	01.10.2018
25	N. Ponnarasan	Edu. Asst'A'	Edu. Asst 'B'	33,900	35,400	11.03.2018
26	Bhanu Prakash V	Ordinary Grade	Dri.Gr.(II)	26,000	27,100	02.06.2018
27	L. Chellappa	OA.Gr.(III)	OA.Gr.(II)	38,600	39,800	26.02.2019

### 23(c) TRANSFERS:

SI No	Full Name of personnel Shri/smt/Ms	Designation	Transferred from ....to...	Date of Relief/ joining
1	S. Muthukumar	Education Officer 'C',	VITM, Bangalore to DSC, Tirunelveli	13.04.2018
2	G. Muthukumar	Technician 'B', Carpenter	VITM, Bangalore to DSC, Tirunelveli	30.11.2018
3	K. Muthusamy	Office Assistant Gr.(II)	VITM, Bangalore to DSC, Tirunelveli	30.11.2018
4	Abhijith Singha Thakur	Technical Assistant. 'A' (Civil)	VITM, Bangalore to Science City, Kolkata	31.05.2018
5	Biswajith Majumder	Driver-Gr.(II)	VITM, Bangalore to NCSM Hqrs.	01.10.2018
6	Navaram Kumar	Curator 'C'	DSC, Tirunelveli to VITM, Bangalore	21.04.2018
7	M.M.K.Balaji	Curator 'C'	RSC, Goa to RSC, Tirupati	01.06.2018
8	N. Ponnarasan	Education Assistant. 'B'	DSC, Tirunelveli to DSC,	24.05.2018

			Gulbarga	
9	M. Rajendran	Driver Gr.(I)	RSC, Calicut to DSC, Tirunelveli	25.02.2019
10	S. Rajeshwari	Section Officer	VITM, Bangalore to NCSM Hqrs.	21.04.2018
11	Shaneeshkumar P M	Driver Gr.(II)	VITM , Bangalore to RSC, Calicut	08.02.2019
12	R. Venkateswarlu	Education Officer. 'C'	DSC, Gulbarga to VITM, Bangalore	08.06.2018

### 23(d) RETIREMENT/REPATRIATION/RESIGNATION:

SI 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	P. Murugan	Office Assistant. Gr.(II)	DSC, Tirunelveli	V.R.S	01.11.2018 (F/N)

### 24. MISCELLANEOUS:

#### 24 (a) DISTINGUISHED VISITORS

##### **VITM, BANGALORE**

1. Shri. Priyank Kharge, Hon'ble Minister of State for Social Welfare, Govt. of Karnataka
2. Shri. Bipin Mallick, Addnl. Secretary & Financial Advisor, Ministry of Culture, Govt. of India, New Delhi
3. Dr. N. Krishna Murthy, Chairman, Karnataka State Food Commission, Govt. of Karnataka
4. Dr. Goutam Chattopadhyay, Senior Research Scientist at the NASA's Jet Propulsion Laboratory, California Institute of Technology.
5. Dr Prashant Kumar, DST-Ramanujan Fellow & Faculty Scientist, Institute of Bioinformatics Bangalore
6. Shri. Suresh Heblikar, Actor, Director & Film Producer, Bengaluru
7. Dr. Rajkumar Upadhyay, Additional Director General, South Zone, Doordarshan & All India Radio, Bengaluru
8. Dr. B V Venkatarama Reddy, Professor & Chairman, Centre for Sustainable Technologies, Indian Institute of Science, Bengaluru
9. Shri. Balachandran Warriar, Former CEO, Manipal Foundation, Bangalore
10. Dr Narendar Pani, Professor and Dean, School of Social Sciences, National Institute of Advanced Studies, Bengaluru

##### **RSC, TIRUPATI**

1. Smt. M. Sugunamma, M.L.A, Tirupati
2. Sri. Yandapalli Srinivasulu Reddy, MLC
3. Smt. Madhavi Latha, IAS, Secretary, Tirupati Urban Development Authority, Tirupati
4. Dr. A. K. Pathra, Director, National Atmospheric Research Laboratory, Gadanki

### ***DSC, GULBARGA***

1. Prof. H. M. Maheshwaraiah, Vice Chancellor of Central University of Karnataka
2. Shri Venkatesh Kumar IAS, Deputy Commissioner, Kalaburagi
3. Er. Narayana Inamdar, Rtd. Scientist, NRSA, Hyderabad, & NASA, Maryland, USA
4. Dr. Ravi Hegadi, Director, Director, School of Computational Sciences, Solapur University
5. Prof. Sarmista Sahu, Rtd. Prof. Physics, Maharani Laxmi Ammani College, Bangalore
6. Mr. Kim D Leeper, London, UK
7. Dr. Elaine Giedrys Leeper, London, UK

### ***DSC, TIRUNELVELI***

1. Smt. Shilpa Prabhkar Satish, I.A.S., District Collector, Tirunelveli
2. Dr K Bashkar, Vice- Chancellor, Manonmaniam Sundaranar University, Tirunelveli.
3. Dr V P Arunsakthikumar. I.P.S., Superintendent of Police, Tirunelveli
4. Shri V P Chandrasekhar, IPoS, Sr. Superintendent of Post Offices, Tirunelveli
5. Dr Namashivayam Ganesh Pandian, Pricipal Investigator, Kyoto University, Japan.
6. Dr T Mookiah, Director, IPRC, ISRO, Mahendragiri, Tirunelveli
7. Smt V Rajalakshmi, Hon'ble Minister for Adi Dravidar and Tribal Welfare, Govt. of Tamilnadu.
8. Smt Vijila Sathyanath, Member of Rajya Sabha, Tirunelveli
9. Shri K Feroz Khan Abdulla, District Commissioner, Tirunelveli

**24(b) MEDIA PROGRAMMES IN WHICH STAFF PARTICIPATED:**

Centre	Name of the Staff	Name of the media	Type of the programme	Broadcast on
VITM	Sri. K. Madan Gopal, Director, VITM	FM 92.5	Live broadcast on 'Vacation Hobby Centres'	10 <sup>th</sup> April 2018
RSC T	Sri.MMK Balaji, Curator & Sri. Y. Durgaiah E.O, RSC(T)	AIR (107.5 F.M Radio), Tirupati	Man Landing on Moon (Interactive and Question answer type)	20 <sup>th</sup> July 2018
	Sri. R. Manigandan PC,RSC(T)	S.C.V - Cable, AIR(107.5 F.M Radio, Tirupati),	Total Lunar Eclipse & Mars Opposition	27 <sup>th</sup> July 2018
	Sri. R. Manigandan PC, RSC(T)	Tirupati Krishna Teja channel	A talk on 'Super Moon, Red Moon & Blue Moon'	19 <sup>th</sup> February 2018
DSC G	Shri C.N. Laxminarayana DSO, DSCG	Red FM 93.5	Talk on 'Lunar Eclipse'	27 <sup>th</sup> July 2018
	Shri C.N. Laxminarayana DSO, DSCG	A.I.R. Kalaburagi	Interview on 'Lunar Eclipse'	27 <sup>th</sup> July 2018
	Shri C.N. Laxminarayana DSO, DSCG	A.I.R. Kalaburagi	Talk on 'Importance of National Science day'	25 <sup>th</sup> February 2019
DSC T	Shri S M Kumar DSO,DSCT	Media Interview	Significance of International Museum Day Celebrations	18 <sup>th</sup> May 2018
	Shri S M Kumar DSO,DSCT	Jaya TV	International Museum Day at DSCT	18 <sup>th</sup> May 2018
	Shri S M Kumar DSO,DSCT	All India Radio FM	Relevance of International Museum Day and the role of DSCT	18 <sup>th</sup> May 2018
	Shri S M Kumar DSO,DSCT	Dina Dharani	DSCT & Its Activities & Upcoming Events	1 <sup>st</sup> July 2018
	Shri S M Kumar DSO,DSCT	Mayuri TV	Total Lunar Eclipse	26 <sup>th</sup> July 2018
	Shri S M Kumar DSO,DSCT	Mayuri TV	Need for Teaching Aid and its Impact in Class Rooms	23 <sup>rd</sup> August 2018
	Shri S M Kumar DSO,DSCT	All India Radio FM	Role of Science Centre for Inculcating Scientific Temper	23 <sup>rd</sup> February 2019

**24(c) POPULAR LECTURES BY STAFF**

Centre	Venue	Date	Topic	Speaker (Shri/Mr)	Audience
<b>DSC G</b>	Proudha devaraya PU College Kalaburagi	5 June 2018	Beat plastic pollution	Shri C N Laxminarayana	220
	Global Education trust academy's Degree College Kalaburagi	5 July 2018	Scientific awareness	-do-	198
	-do-	26 July 2018	Eclipse _ Myths beliefs	-do-	170
	Harkode Channabasaveshwar High School, Chincholi	11 August 2018	Astronomy & Space Science	-do-	218
	Matruchaya High School Campus, Sedam	9 September 2018	Leaning science through low cost teaching aids	-do-	618
	Campbells School, Kalaburagi	18 November 2018	Scientific awareness	-do-	618
	Chandrakanth Patil School, Kalaburagi	25. November 2018	Scientific awareness	-do-	264
	Poorna Jnanadarshana School, Kalaburagi	30. November 2018	Scientific Temper	-do-	332
	Vidyamandir High School, Sedam	10 January 2019	Facilities and activities of Science Centre	-do-	405
	Rotary club , Kalaburagi	19. January 2019	water conservation	-do-	108
	K G P School, Gulbarga	26 January 2019	Facilities and activities of Science Centre	-do-	540
	Peace Islamic International School, Kalaburagi	24 February 2019	Scientific attitude	-do-	709
	S B college of Science, Kalaburagi	28 February 2019	Importance of National Science day'	-do-	605
	R V Degree College, Yadgiri	11 March 2019	Importance of National Science day	-do-	417
	Govt. Women's Polytechnic , Kalaburagi	18 March 2019	Scientific attitude	-do-	61
Nutan Vidyalaya Degree College, Kalaburagi	20 March 2019	Science in our daily life	-do-	57	
<b>DSC T</b>	Sadhana Vidyalaya Kadayannallur Tirunelveli	4 April 2018	Role of Science & Technology in Cultural Integration	Shri S M Kumar, DSO,DSCT	255
	Anna University Regional Campus, Tirunelveli	7 June 2018	Growth of Science & Technology Serving the Development of Society	-do-	59

Anna University Regional Campus, Tirunelveli	9 June 2018	How to become a Smart Achiever	Shri P Marilenin, EO	52
Govt. Girls Hr.Sec.School, Erode	25 June 2018	Understanding Science for serving Society Better	Shri S M Kumar, DSO, DSCT	765
District Science centre, Tirunelveli	6 July 2018	Health & Hygiene	Shri P Marilenin, EO	264
Sri Sarada College for Women, Ariyakulam, Tirunelveli	11 July 2018	Science for Quality Life	Shri S M Kumar, DSO, DSCT	295
NSS Camp of TNAU, Ramanujampudhur	12 July 2018	Role of Students in delivering Science & Technology	-do-	238
Sri Parasakthi Arts & Science College for Women, Courtallam	25 July 2018	History of Invention & Innovation in Today's Relevance	-do-	195
Francis Xavier College of Engineering, Vannarpettai, Tirunelveli	9 September 2018	Sir M Visvesvaraya – the Visionary and Innovator	-do-	260
St. Xavier's College, Palayamkottai	2 December 2018	Advances in the Field of Medicine	-do-	
Laxmiammal Polytechnic College, KR Nagar, Kovilpatti	24 January 2019	Inventions & Innovations in the Service of Mankind	-do-	356
STACG Hi-Tech School, Idalkal, Tirunelveli	25 January 2019	Future of Science & Technology	-do-	580
Sri Jayendra Swamigal Silver Jubilee Mat Hr Sec School, Maharajanagar, Tirunelveli	26 January 2019	Science & Technology Indigenisation in India	-do-	623
Florence Swanson Hr. Sec. School for Deaf & Dumb, Palayamkottai	9 February 2019	Beat the Plastic Pollution	-do-	613

	Muthamil Public School, Munnerpallam	16 February 2019	Inspiration from Failed Experiments	Shri S M Kumar, DSO,DSCT	890
	TVRK Hindu Vidyalaya Matric Hr.Sec.School, Srivaikundam	19 February 2019	Indian Scientists and their Achievements	-do-	480
	Sri Muppidthiamman Matric Hr.Sec.School, Adaikalpattinam	26 February 2019	Significance of National Science Day	-do-	425
	Sardar Raja Engineering College, Alangulam	01 March 2019	Creating a Knowledge based Economy	-do-	1050
	Wisdom Matric Hr.Sec.School, Kadayannallur	02 March 2019	Inspiration from Young Achievers	-do-	590
	Rani Anna Govt. College for Women, Gandhinagar, Tirunelveli	08 March 2019	Women Achievers of the World	-do-	610
	Francis Xavier College of Engineering, Vannarpetai, Tirunelveli	09 March 2019	From Innovative Ideas to Entrepreneurship	-do-	315
	TSNPAS Nursery & Primary School, Tachanallur	09 March 2019	Technology and Human Life	Shri P Marilenin, EO	960
	Merit Matric School, Ambasamudram	16 March 2019	Science Behind Culture & Ethics	Shri S M Kumar, DSO,DSCT	460
	Little Flower Matric School, Gandhinagar	23 March 2019	Young Minds – Competition Vs Cooperation	-do-	565

(d) **FOREIGN DEPUTATIONS:**

**RSC T** : Shri. M M K Balaji, Curator 'C' was on deputation to Colombo, Sri Lanka from 6<sup>th</sup> to 14<sup>th</sup> October 2018 to participate in 23<sup>rd</sup> Astronomy Olympiad (Junior) as a Team member and Jury Member.



**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	30	Action and Reaction
2	Sympathetic Swing-I	31	Cone Runs Uphill
3	Trace a Pattern	32	Win the Race
4	Compound Pendulum	33	Centrifugal Force
5	Straight Line or Circle?	34	Echo tube
6	Swing a Quintal	35	ISIS
7	Variable Pendulum	36	Whispering garden
8	Inclined Planes	37	Musical Bars
9	Pulleys Lift Loads	38	Elliptical Speaking Tube
10	Lever Reduces Effort- 3No.s	39	Optic Tree
11	A Sea-Saw is a Lever	40	Bird In a Cage
12	Pulley Drive	41	World Minus Colours
13	Gear Train	42	Perception of Depth
14	Worm Wheel -2 Nos.	43	A simple Camera
15	Check your weight	44	Nipkov's Disc
16	Lift Yourself	45	Oscillating or Rotating
17	Roller Coaster - 2 Nos.	46	Archimedes Screw
18	The Acrobatic Ball	47	Moment of Inertia
19	Minimum Time path	48	Balancing (Moment)Wheel
20	Rolling and Sliding	49	Sun-dial
21	Segregation of Balls	50	Geodesic Dome - Rabbits Cage - 1
22	Guess the Length	51	Geodesic Dome - Rabbits Cage - 2
23	Size and Distance	52	Geodesic Dome - Rabbits Cage - 3
24	Ellipse Tracing	53	Geodesic Dome – Pigeon Cage
25	Möbius Band	54	Geodesic Dome - Ducks Cage
26	Impossible Triangle	55	Sympathetic Swing - II
27	Weightlessness	56	Animal in a Cage
28	Turn Faster	57	Spider Web
29	Moment Wheels(3 Discs)	58	HPT-32 Deepak

### Pre Historic Life Park

<b>Sl. No.</b>	<b>Name of the Exhibit</b>	<b>Sl. No.</b>	<b>Name of the Exhibit</b>
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	11	Earth-Moon System
2	Probability	12	Racing Balls
3	Rolling Discs	13	Bouncing Balls
4	DNA	14	2D to 3D
5	Sea-saw as a Pump	15	Scientists - 8 Nos
6	Pin Screen	16	Mathematical Totems -13 Nos
7	Transverse Wave Propagation		
8	Laminar or Turbulent		
9	Variable Swing		
10	Relative Motion		

## 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. Musical Bars
4. Centrifugal force
5. Amusing See saw
6. Aero engine Radial type
7. Size And Distance
8. Win a race
9. Weightlessness 'A'
10. Echo Tube
11. Pulley System
12. Check Your Weight
13. Roller Coaster
14. Acrobatic Ball  
(Centripetal Force - A)
15. Gravity Well
16. Pulley Drive
17. Gear train
18. Worm Wheel
19. How friction helps?
20. Swing is a Pendulum
21. Rocking Chair
22. Tug of War
23. Rolling Drum –Circular
24. Rolling Drum –Hexagonal
25. Deceiving Eyes
26. Inertia of Wheels
27. Gravity Paradox - A
28. Gravity paradox - B
29. Sound Reflectors
30. Harmonograph
31. World Clock
32. Self Balancing Sticks
33. Spider Web
34. Variable Pendulum
35. Bird in a Cage
36. Parabola
37. Weightlessness 'B'
38. Size & Weight
39. Compound pendulum
40. Lever reduces effort –I
41. Lever reduces effort –II
42. Lever reduces effort –III
43. Lissajous Figures - A
44. Inclined Plane
45. Isis Speak - 1 set (2 Nos.)
46. Straight Line or Circle  
(Pulfritch Pendulum)
47. Seesaw is a Lever 'A'
48. Seesaw is a Lever 'B'
49. Sympathetic Swing
50. Angular Momentum
51. Swing is a Pendulum
52. One plus one is less than one
53. Projectiles
54. Action & Reaction
55. Archimedes Screw
56. Geodesic Dome
57. Moebius Band
58. Express Slide
59. Wave Motion
60. Cycloid Path
61. Lift Yourself Up
62. Elliptical Band
63. Swings of different lengths
64. Scientists Busts (08 Nos)
65. Mathematical Totem (13 Nos)
66. Camera Obscura
67. Rabbit cage
68. Pet Aviary
69. Yo - yo
70. Geodesic Dome (5.4Mtrs)
71. Geodesic Dome (3.6 Mtrs)
72. Guess the length
73. Persistence of Vision
74. Involute in a Circle
75. Total Internal Reflection
76. Sun dial or Telling Time
77. Rotation per Minute
78. Spring Saves Energy
79. Inner Earth
80. Moment of Inertia
81. Rain Rain Come Again
82. Electromagnetic Waves
83. Ellipse
84. 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.	Sickle cell Disease	Biotechnological Revolutions	VITM
2.	Non return valves in veins	Human Biology	DSC, Gulbarga
3.	Cone runs up hill	Fun Science	Other Science Centres (U/Catalytic support)
4.	Swirling Liquid	----do---	----do---
5.	Musical pipes (5 Nos)	----do---	----do---
6.	Lift Yourself (5 Nos)	----do---	----do---
7.	Chaos (5 Nos)	----do---	----do---
8.	Turn Faster (5 Nos)	----do---	----do---
9.	Bird in Cage (5 Nos)	----do---	----do---
10.	Cone run uphill (5 Nos)	----do---	----do---
11.	Breathing square	Fun Science	DSC Tirunelveli
12.	Defying gravity	----do---	----do---
13.	Color Pyramid	----do---	----do---
14.	Walk on Piano for	Science for Kids	VITM
15.	Mechanical toys No-3	----do---	----do---
16.	Sense of touch	----do---	----do---
17.	Animal sounds	----do---	----do---
18.	Mechanical toys No: 4	----do---	----do---

19.	Pipe Organ	----do---	----do---
20.	Roller Coaster	----do---	----do---
21.	Mechanical toys - No. 5	----do---	----do---
22.	Human Tongue	----do---	----do---
23.	Seasons	----do---	----do---
24.	Sense of Smell	----do---	----do---
25.	Colour Wheel	----do---	----do---
26.	Light Wall	----do---	----do---
27.	Heart Beat	----do---	----do---
28.	Amidst Animals	----do---	----do---
29.	Land forms	----do---	----do---
30.	Mechanical Toys - 6	----do---	----do---
31.	Lotus	----do---	----do---
32.	Honey Bee	----do---	----do---
33.	Nobel Prize 2018 Physics	Temporary exhibition	VITM
34.	Nobel Prize 2018 Chemistry	----do---	----do---
35.	Nobel Prize 2018 Physiology & Medicine	----do---	----do---
36.	Nobel Prize 2018 Peace	----do---	----do---
37.	Nobel Prize 2018 Literature	----do---	----do---
38.	Nobel Prize 2018 Economics	----do---	----do---
39.	Yoga for Depression	Temporary exhibition Yoga Sandesha – an exhibition on Yoga – Mind & Body	VITM
40.	Positive effects of Yoga cognition Research studies at NIMHANS	----do---	----do---
41.	World Health Day 2017	----do---	----do---
42.	Yoga for other brain disorders	----do---	----do---
43.	Yoga for Healthy Ageing	----do---	----do---

44.	Yoga for Schizophrenia	----do---	----do---
45.	Oersted Experiment	Kits for SDL on Magnetic Effects of Electric Current	VITM
46.	Magnetic Field pattern in various types of Magnets	----do---	----do---
47.	Magnetic Field pattern around Coil or Solenoid	----do---	----do---
48.	Magnetic field strength at the Centre of the coil(Electro Magnet)	----do---	----do---
49.	Generation of Electricity by moving a Magnet (Electromagnetic Induction)	----do---	----do---
50.	Jumping Disc	----do---	----do---
51.	Transformer Principle	----do---	----do---
52.	Heat production by Electro Magnetic Induction	----do---	----do---
53.	Lazy tube Experiment	----do---	----do---
54.	Resistance in Series & Parallel	----do---	----do---
55.	Ohm's Law experiment	----do---	----do---
56.	Experiment on Electrical Voltage	----do---	----do---
57.	Fleming's Left Hand Rule	----do---	----do---
58.	DC Motor	----do---	----do---
59.	Motor & Generator experiment	----do---	----do---
60.	Generation of Electricity	----do---	----do---

### RSC, TIRUPATI

Sl. No.	Name of the exhibit	Name of the Gallery for which it is made	Centre for which it is developed
1	25 years of RSCT Exhibits	Temporary Exhibition	RSCT
2	Modern Wind Mill	Non-conventional Energy	RSCT
3	Harvesting Heat	----do---	----do---
4	Wind Mill	----do---	----do---
5	Direct Heat	----do---	----do---
6	Depletion of NCER	----do---	----do---

7	Bio-diesel	----do---	----do---
8	Popular Applications of Solar Energy	----do---	----do---
9	Traditional Wind Mill	----do---	----do---
10	Solar Energy & world scenario	----do---	----do---
11	Solar Energy Harvest	----do---	----do---
12	OTEC	----do---	----do---
13	Sun sources of All Energy	----do---	----do---
14	Hydro Power	----do---	----do---
15	Nuclear Power	----do---	----do---
16	Modern Wind Mill-2	----do---	----do---
17	Wave Energy	----do---	----do---
18	Tidal Energy	----do---	----do---

#### KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1.	Snake Pendulum	Kit	RSC, Tirupati
2.	Sympathetic Swings	----do---	----do---
3.	Solar Concentrator	----do---	----do---
4.	Alcohol Rocket	----do---	----do---
5.	Light Wave Detector	----do---	----do---
6.	Non Inertial Frame-Linear	----do---	----do---
7.	Non Inertial Frame-Circular	----do---	----do---
8.	Transfer of Momentum	----do---	----do---
9.	Solar Projection Box	----do---	----do---
10.	Mirage Bowl	----do---	----do---
11.	Optic kits	32 No. of Kits	For TTP
12.	Variable Voltage Electronics kits	----do---	----do---



**DSC, GULBARGA****KITS/AIDS DEVELOPED**

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1	Electrolysis	Kit for SDL	DSC G
2	Current & resistance relation kit	----do---	----do---
3	Duplicate kit of Electricity magnetism for SDL	----do---	----do---
4	Floating magnet	----do---	----do---

**DSC, TIRUNELVELI****EXHIBITS/ KITS/AIDS DEVELOPED**

SI No	Name of the exhibit	Type of exhibits/ kits/aids	Gallery / Centre for which made
1	Lever Order I	Kit for TTP	DSC T
2	Lever Order II	----do---	----do---
3	Lever Order III	----do---	----do---
4	Tangram	----do---	----do---
5	Dice Net	----do---	----do---
6	Solar System Model	----do---	----do---
7	Flexagon	----do---	----do---
8	Image Formation	----do---	----do---
9	Pulley System	----do---	----do---
10	Boyle's Law	----do---	----do---
11	Motor	----do---	----do---
12	Faraday's Law	----do---	----do---
13	Parallel Circuit	----do---	----do---
14	Series Circuit	----do---	----do---
15	Image Formation	----do---	----do---
16	Flexagon	----do---	----do---
17	Mathematical Shapes	----do---	----do---
18	Pulley System	----do---	----do---

**POPULAR SCIENCE LECTURE****VITM, BANGALORE**

<b>Sl. No.</b>	<b>DATE</b>	<b>TOPIC</b>	<b>NAME OF THE SPEAKER</b>	<b>VENUE</b>	<b>AUDIENCE</b>
1	20.04.2018	'Home Energy & Resources Management for sustainable development.	Shri. Sunil Kumar Sood Director, Association of Green Industries & Services, Bengaluru	VITM	125
2	27.04.2018	Organic Terrace Gardening Movement in Bengaluru	Dr Vishwanath Kadur, Retired Associate Professor, University of Agricultural Sciences, Bangalore	VITM	140
3	05.06.2018	Medicinal Plants	Dr. Nandini D, Foundation for Revitalisation of Local Health Traditions, Bengaluru	VITM	100
4	21.06.2018	Yoga	Dr. Shivaram Varambally, Professor, Dept of Psychiatry, NIMHANS, Bangalore	VITM	150
5	17.07.2018	Are We Alone? NASA's Search for Life Beyond Earth'	IEEE –VITM distinguished Lecture Dr. Goutam Chattopadhyay, a Senior Research Scientist at the NASA's Jet Propulsion Laboratory, California Institute of Technology	VITM	180
6	27.07.2018	Liquid Biopsies: The Future of Cancer Diagnostics'	Dr. Prashanth Kumar, Faculty Scientist, Institute of Bioinformatics, Bangalore	VITM	200
7	01.09.2019	Gadgets in the Times of Circular Economy	Shri. Jayashankara Aradhya, advisor and consultant, Head of MS Operations, Wireline and CDN, Ericsson India	VITM	100
8	15.09.2018	Natural Resources Management,	Dr. R. Nijagunappa, Professor (Retd). Dept. Of Geology, Gulbarga University, Kalaburagi	VITM	210
9	09.10.2018	'Maths & Computation'	Dr. S. Balachandra Rao, Hon. Director, Bharatiya Vidya Bhavan's Gandhi Centre of Science and Human Values, Bengaluru	VITM	38
10	08.12.2018	'One-day journey of talking devices' followed by a workshop on 'what's in a message?'	Shri. Brijesh Chettejana Appachu, Bangalore	VITM	50

11	09.01.2019	'Producing Carbon Nano tubes in Bangalore'	Shri Gadhadhar Reddy, CEO, NOPO Nanotechnologies Ltd, Bangalore	VITM	95
12	10.01.2019	Liquid Biopsies' a tool in Advanced techniques in Diagnostics	Dr. Prashanth Kumar, Faculty Scientist, Institute of Bioinformatics, Bangalore	VITM	200
13	01.02.2019	Concept behind Innovations	Dr. B V Venkatarama Reddy, Professor & Chairman, Centre for Sustainable Technologies, Indian Institute of Science, Bengaluru	VITM	210
14	03.02.2019	Innovations	Shri. Balachandran Warriar, Former CEO, Manipal Foundation, Bangalore	VITM	230
15	28.02.209	Science & Gandhi	Dr Narendar Pani, Professor & Dean, School of Social Sciences, National Institute of Advanced Studies, Bengaluru	VITM	220
16	17.03.2019	'Ideas & Innovations'	Shri S. Hiriyanna, Group Head, GEOSAT Programme, Prof. U R Rao Satellite Centre, Bengaluru	VITM	400
17	17.03.2019	Genius in U'	Sri G V L Narasimha Babu, Director – R & D, Synopsys India Ltd Bengaluru	VITM	400

### RSC TIRUPATI

Sl. No.	DATE	TOPIC	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	05.06.2018	Environment	Prof. D V R. Sai Gopal Dept. of Virology, S V University, Tirupati	RSC T	300
2	21.06.2018	Effects of Yoga on Human Health	Dr. Alladi Mohan, HoD, Dept. of Medicine, S V Institute of Medical Sciences, Tirupati	RSC T	200
3	23.07.2018	Glorious 25 years of RSCT	Prof. P. V. Ranganayakulu Director of T T D Museums, Tirupati	RSC T	455
4	18.08.2018	IOT security & Cyber safety for beginners	Sri.K.Karthikeya Kumar, K3 Consultants, Hyderabad	RSC T	150
5	25.08.2018	BOTOICS Technology towards the BOTS	Sri .Venkat Kamesh, Sri Vidya Technology, Tirupati	RSC T	50

6	16.09.2018	A New thought on Ozone	Prof. P. V. Ranganayakulu, Director of T T D Museums, Tirupati	RSC T	125
7	23.9.2018	25 years of RSCT	Prof. R. Ramamurthy Former Vice Chancellor, S V University, Tirupati	RSC T	225
8	15.10.2018	Life History of APJ Abdul Kalam	Sri. R. Manigandan, PC RSC T	RSC T	355
9	3.11.2018	Vanam-Manam	Prof. S. Vijaya Bhaskara Rao Prof of Physics,, S V University, Tirupati	RSC T	120
10	22.12.2018	Life & Works of Srinivas Ramanujan	Sri M M K. Balaji, Curator, RSC T	RSC T	270
11	05.01.2019	Start of E-Commerce	Sri. P. Brahman Founder, start up Co, M/s White apron e-edu Commerce Pvt. Ltd., Hyderabad, Telangana	RSC T	280
12	05.01.2019	Innovations and Science	Prof. T. S. Natarajan, IIT, Tirupati	RSC T	345
13	05.01.2019	Tissue Culture	Dr. K. Viswanath, Ag. College and Dr. Saritha, S.V.U, Tirupati	RSC T	372
14	07.01.2019	Gross root Innovations	Sri .K. Padmanabhan Founder, start up Co M/s Pavan Solutions, Palamaneru, Chittoor Dist., AP	RSC T	500
15	28.02.2019	Science and Technology	Prof. V V N. Rajendra Prasad, VC, S V University, Tirupati	RSC T	275
16	15.03.2019	Wonders of the Brain	Dr. B C M. Prasad, S V Institute of Medical Sciences, Tirupati	RSC T	490

### DSC GULBARGA

Sl.No.	Date	Topic	Name of the Speaker	Venue	Audience
1.	16.4.2018	Health awareness in daily life	Dr. Gururaj Kulkarni Director, Shanti Medical Centre Kalaburagi	DSC G	65
2.	18.4.2018	The Importance of Monuments & Sites	Dr. Shambulinga S Vani Associate Professor Dept. of History, Govt. Degree College, Kalaburagi	DSC G	55
3.	4.6.2018	Crystals, properties and applications.	Dr. Vivekanand M Jali, Professor, Dept. of PG Studies and Research in Physics Gulbarga University	DSC G	550

4.	5.6.2018	Beat Plastic Pollution	Dr. Ramesh L Londonkar, Professor, Dept. of Biotechnology, Gulbarga University	DSC G	450
5.	9.6.2218	Save our environment	Dr. Prakash K, Chairman, Dept. of Environmental Science Gulbarga University	DSC G	450
6.	21.6.2018	Science of Yoga	Dr. Smita Kanmuse, Associate Professor, Hingulambika Ayurvedic College Kalaburagi	DSC G	300
7.	28.6.2018	Recent trends in biotechnology	Dr. Chandrakanth Kelamani, Chairman, Dept. of Biotechnology, Gulbarga University	DSC G	320
8.	11.7.2018	Population explosion & Family Planning	Dr. Gurubasappa T, Prof. & Head, Dept. of Economics, PG Centre, Govt. Degree College, Kalaburagi	DSC G	265
9.	9.8.2018	Nuclear Energy & its applications'	Dr. Purushottam Joshi, Asst. Professor, Dept. of Physics, Govt. Degree College, Kalaburagi	DSC G	218
10.	30.8.2018	Light Matters	Dr. Bharat Kumar, Asst. professor, School of Physical Sciences, Central University of Kalaburagi	DSC G	683
11.	16.9.2018	Life-protecting Ozone Layer	Shri C N Manjappa, Dy. Environmental officer, KSPCB, Regional Office, Kalaburagi	DSC G	495
12.	10.11.2018	Science - A Human right	Dr. Chandrakanth Kelamani, Professor, Dept. of Biotechnology, Gulbarga university, Gulbarga	DSC G	118
13.	22.12.2018	Life & work of Srinivasa Ramanujan	Dr. G. Janardhan Reddy, Assistant Professor & Coordinator, Dept. of Mathematics, School of Physical Sciences, Central University of Karnataka	DSC G	185
14.	7.1.2019	Use – misuse and effect of Electronics gadget on children	Dr. Gururaj Kulkarni, Director, Shanti Medical Centre, Kalaburagi	DSC G	180
15.	16.1.2019	Science for the mankind	Prof. H. M. Maheshwaraiah, Vice Chancellor of Central University of Karnataka	DSC G	116
16.	28.2.2019	Sir C V Raman - his life & works'	Dr. A. Venkataramana Professor, Dept. of PG Studies & Research in Chemistry Gulbarga University, Kalaburagi	DSC G	100

**DSC, TIRUNELVELI**

SL NO	DATE	TOPIC	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	5.06. 2018	How to Maintain Healthy Environment	Dr. D Lora, Prof. Dept. of English, Bharathidasan University, Trichy	DSC T	196
2	5.06. 2018	Beat Plastic Pollution	Shri T. Selva Ganapathy Dist. Environment Engineer Tamilnadu Pollution Control Board, Tirunelveli	DSC T	196
3	21.06. 2018	Significance of Yoga	Shri A. Nagarajan Yoga Professor Nellai City Manavalakalai Center	DSC T	165
4	13.07. 2018	Science of Cloth – Introduction & Overview	Dr. Chellappa National Awardee for Best Teacher, Tirunelveli	DSC T	172
5	11.08. 2018	Power of Innovation & Technology	Dr. Sudhakar Prof. & Head, Dept. of Biotechnology Manonmaniam Sundaranar University, Tirunelveli	DSC T	56
6	11.09. 2018	Power of Innovation & Technology	Dr. S Sudhakar Prof. & Head, Dept. of Biotechnology Manonmaniam Sundaranar University, Tirunelveli	DSC T	56
7	19.09. 2018	The Regeneration of Earthworm – Biological and Medical Applications for Human	-do-	DSC T	120
8	08.10. 2018	Need for Eco Conservation	Shri Kalidhasan, Founder OSAI Trust, Coimbatore	DSC T	214
9	09.10. 2018	Eye Care Everywhere	Dr. Meenakshi, M.D., Aravind Eye Hospital	DSC T	156
10	29.10. 2018	Green Energy	Shri S Rajapandian Senior Scientist Kudankulam Nuclear Power Projects, Tirunelveli	DSC T	216
11	10.11. 2018	Significance of Science Centre in Society Today	Dr. R Mathivanan Managing Director Arumbergal Trust, Tirunelveli	DSC T	126
12	18.11. 2018	Preventive Measures of Dengue Fever	Dr. Subash Professor, Govt. Siddha Medical College, Palayamkottai	DSC T	135

13	10.12. 2018	Fighting Cancer by Unleashing Immunity	Dr. Ganesh Namashivaya Pandian, Principle Investigator, Kyoto University, Japan	DSC T	139
14	22.02. 2019	Statistics and Its Applications	Dr .P Arumugam Prof. & Head Dept. of Statistics Manonmaniam Sundaranar University, Tirunelveli	DSC T	126
15	27.02. 2019	Futuristic Science Centres	Dr. S Sethuramalingam Former Director RMNH, Bhopal	DSC T	158
16	28.02. 2019	Light	Smt. Meenakshi, Prof. & Head, Dept. of Physics, Govt. College of Engineering, Tirunelveli	DSC T	148

# Popular Science Lectures



IEEE-VITM Lecture on 'Are We Alone' NASA's Search for Life Beyond Earth by Dr. Goutam Chattopadhyay, Senior Research Scientist Jet Propulsion Laboratory

Lecture on Liquid Biopsies during 53rd Anniversary of VITM by Dr Prashant Kumar, DST-Ramanujan Fellow & Faculty Scientist, Institute of Bioinformatics, Bangalore



Lecture on 'Innovations' by Shri. Balachandran Warriar Former CEO, Manipal Foundation Bangalore

Lecture on 'Science & Gandhiji' by Dr Narendar Pani, Professor & Dean School of Social Sciences National Inst of Adv Studies



Lecture on 'Concept behind Innovations' by Dr. B V Venkatarama Reddy, Professor & Chairman, Centre for Sustainable Technologies, IISc, Bangalore



Popular Science Lecture on 'Yoga' by Dr. Gururaj Kulkarni at DSC G



Lecture on Science of Cloth - Introduction & Overview at DSC T



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

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

**ELECTRONICS ;**

<b>Sl. No</b>	<b>Name of the Projects</b>	<b>Sl.No</b>	<b>Name of the Projects</b>
1.	LED Disco Light	2.	Multi tone music

**MATHEMATICS:**

Sl. No	Name of the Projects	Sl. No	Name of the Projects
1.	Platonic solids	2.	Puzzles (Shapes)
3.	Golden Spiral	4.	Golden Rectangle
5.	Algebraic identities	6.	Topology
7.	Fibonacci Cage	8.	Pascal triangle
9.	Magic Square	10.	Prime No chart

**PHYSICS:**

Sl.No	Name of the Projects	Sl. No	Name of the Projects
1.	Static electricity	2.	D C Motor
3.	Electric Bell	4.	Wind Generator
5.	Oersteds experiment	6.	Bimetallic strip
7.	Hydraulic Jack	8.	Persistence of vision

**Robotics**

Sl.No	Name of the Projects	Sl. No	Name of the Projects
1	Gyro Bay	2	Elephant
3	Colour Sorter	4	Proportional line follower
5	Proportional Wall follower	6	

**Art & Science**

Sl.No	Name of the Projects	Sl. No	Name of the Projects
1	Thayyum Paper craft	2	Kathakali Mask
3	POP Molding	4	Pen & Pencil stand using old news papers

## RSC, TIRUPATI

### LIST OF PROJECTS COMPLETED IN VACATION CAC:

SI No	Name of the Projects	SI N	Name of the Projects
<b>Physics</b>			
1.	Simple Pendulum	5	Resonating Balls
2.	Snake Pendulum	6	Bernoulli's principle
3.	Sympathetic Pendulum	7	Centre of Gravity
4.	Newton Color Disc		
<b>Chemistry</b>			
1	Preparation of Yogurt	4	Preparation of Cake
2	Preparation of Bread	5	Preparation of Tutti Frutti
3	Preparation of Cookies	6	
<b>Biology</b>			
1	Dicot stem	3	Stomata observation in Dicot
2	Rhizopus mycelium	4	Pollen grains in Tridax
<b>Gardening</b>			
1	Indoor Germination Process	4	Indoor Cultivation of Green Leafy Vegetable
2	Preparation of Coco peat		Types of Grafting Techniques
3	Hydroponics		
<b>Electronics</b>			
1	Variable Voltage Power Supply	3	Musical Bell
2	Parallel an Series Board, Power Board	4	Working of BC 547 IC
<b>Mathematics</b>			
1	Measurements	6	Parabola
2	Platonic solids	7	Vedic Mathematics
3	Hyperbola	8	Golden Ratio
4	Hats and cap from News paper	9	Sheep & Turtle
5	Butterfly making		
<b>Art &amp; Science</b>			
1	Arts & Science: Hand Made Paper	4	Arts & Science: Printing on T-Shirts
2	Arts & Science: Photo on Wood	5	Painting: Mixing of Colours
3	Painting: Sketch and Line Drawing		
<b>Astronomy</b>			
1	Sun Dial	4	Sky Chart
2	Sextant	5	Measuring the Circumference of Earth
3	100 Years Calendar	6	Ball and Mirror Projection

<b>Robotics</b>			
1	Assembly & Programming	3	Stick to Wall Activity
2	Use of Sensors	4	Colour Sensor Activity, Line Follower
<b>Computers</b>			
1	Script Writing, Story Board making	3	Short Film Making: Video Editing using software
2	Short Film Making:	4	Short Film Making: Mixing of Audio

### **RSCT – LIST OF PROJECTS COMPLETED IN MUSEUM CAC**

<b>Sl. No.</b>	<b>Name of the Project</b>	<b>Sl. No.</b>	<b>Name of the Project</b>
1	Sun Projection Box	2	Measuring the Movement of the Sun

### **DSC, GULBARGA CHEMISTRY:**

<b>Sl. No.</b>	<b>Name of the Project</b>	<b>Sl.No.</b>	<b>Name of the Project</b>
1	Identification of Acids & Bases by Litmus	16	Combustion of Phosphorous
2	Identification of Acids & Bases by Methyl orange	17	Sublimation
3	Identification of Acids & Bases by Methyl red	18	Hydrogen preparation
4	Identification of Acids & Bases by Phenolphthalein	19	Preparation & study of carbon dioxide
5	Naturalization Reaction	20	Changing colours by shaking
6	Acid-base titration	21	Cut without blood
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 <sub>3</sub> on metals		

### **PHYSICS :**

<b>Sl. No</b>	<b>Name of the Project</b>	<b>Sl. No</b>	<b>Name of the Project</b>
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	Coulombs' law of static electricity
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	LED blinker on bread board	2	Musical doorbell Using UM66
3	Mini Tesla coil		

**LIST OF PROJECTS COMPLETED IN MUSEUM CAC:****CHEMISTRY:**

Sl No	Name of Project		
1	Identification of acids & bases	8	Electrolytic decomposition
2	Titration of acids & bases	9	Magic candle experiment
3	Types of Chemical reactions	10	Action of Ferric chloride on Pot. thiocyanate
4	Exothermic reaction	11	Redox reaction
5	Endothermic reaction	12	Green volcano
6	Action of acids on metals	13	Combustion of Red phosphorus
7	Action of bases on metals	14	Sun rise & sun set experiment
		15	Sublimation

**ELECTRONICS:**

Sl. No.	Name of the Project	Sl. No.	Name of the Project
1	Electronic Organ		Police Siren
2	Musical Door bell		Optical switch
3	LED Blinker		

**DSC, TIRUNELVELI****ASTRONOMY:**

Sl.No	Name of the Projects	Sl.No	Name of the Projects
1.	Aryabhata Satellite Model	2.	Star Chart
3.	Constellation Chart	5	Sun Dial
4.	Rocket Model	6	Phases of Moon

**ELECTRONICS :**

Sl.No	Name of the Projects	Sl.No	Name of the Projects
1.	Clap Switch	2.	Automatic street Light
3.	Electronic Bell	4.	Traffic Timer

**SCIENCE TOY MAKING:**

Sl. No	Name of the Projects	Sl. No	Name of the Projects
1.	Colour Shadow	2.	Static Electricity
3.	Toothpick Geometric Shapes	4.	Infinity Well
5.	Tangrams	6.	Flexagon
7.	Centre of Gravity	8.	Puzzle
9.	Sympahtetic Oscillation	10.	Waves
11.	Simple Motor	12.	Floating Magnet

## ANNEXURE – 5

### 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**

<b>SI No</b>	<b>Name of the Programmes</b>	<b>Date</b>
1	National Technology Day	11 <sup>th</sup> May 2018
2	International Museum Day	18 <sup>th</sup> May 2018
3	World Environment Day	5 <sup>th</sup> June 2018
4	International Day of Yoga	21 <sup>st</sup> June 2018
5	53 <sup>rd</sup> Anniversary of VITM	23 <sup>rd</sup> to 27 <sup>th</sup> July 2018
6	157 <sup>th</sup> Birth Anniversary of Sir M. Visvesvaraya	15 <sup>th</sup> September 2018
7	Children's Day (Makkala Habba)	14 <sup>th</sup> November 2018
8	3 <sup>rd</sup> International Science Centre & Science Museums Day	10 <sup>th</sup> November 2018
9	Communal Harmony Week	22 <sup>nd</sup> November 2018
10	'National Mathematics Day'	22 <sup>nd</sup> December 2018
11	National Science Day (week)	22 <sup>nd</sup> to 28 <sup>th</sup> February 2019
12	International Women's Day	8 <sup>th</sup> March 2019
13	Brain Awareness Programme	12 <sup>th</sup> & 14 <sup>th</sup> March 2019

#### **RSC, TIRUPATI**

<b>SI No</b>	<b>Name of the Programmes</b>	<b>Date</b>
1	World Earth Day	22 <sup>nd</sup> April 2018
2	National Technology Day	11 <sup>th</sup> May 2018
3	International Museum Week	18 <sup>th</sup> to 24 <sup>th</sup> May 2018
4	World Environment Day	1 <sup>st</sup> to 5 <sup>th</sup> June 18
5	International Yoga Day	21 <sup>st</sup> June 2018
6	Man Landing on the Moon Week	16 <sup>th</sup> to 22 <sup>nd</sup> July 2018
7	Independence Day	15 <sup>th</sup> August 2018
8	World Ozone Day	16 <sup>th</sup> September 18

9	National Unity Day	31 <sup>st</sup> October 2018
10	International Science Centre & Science Museum Day	10 <sup>th</sup> November 2018
11	AIDS Awareness Week	1 <sup>st</sup> to 6 <sup>th</sup> December 2018
12	Mathematics Day	22 <sup>nd</sup> December 2018
13	Republic Day Science Quiz	26 <sup>th</sup> January 2018
14	National Science Week	22 <sup>nd</sup> to 28 <sup>th</sup> February 2018
15	International Women's Day	8 <sup>th</sup> March 2019
16	World Water Day	23 <sup>rd</sup> March 2019

### DSC, GULBARGA

Sl. No.	Name of the Programme	Date
1	Birth Anniversary of William Harvey	1 <sup>st</sup> April 2017
2	NCSM Foundation Day	4 <sup>th</sup> April 2017
3	World Health Day	7 <sup>th</sup> April 2017
4	World Earth Day	22 <sup>nd</sup> April 2017
5	National Technology Day	11 <sup>th</sup> May 2017
6	Birth Anniversary of Sir Ronald Ross	13 <sup>th</sup> May 2017
7	International Museum Day	18 <sup>th</sup> May 2017
8	World Environment Day	5 <sup>th</sup> to 9 <sup>th</sup> June 2017
9	International Yoga Day	21 <sup>st</sup> June 2017
10	World Population day	11 <sup>th</sup> July 2017
11	Hiroshima Day	5 <sup>th</sup> to 8 <sup>th</sup> August 2017
12	Engineers' Day	15 <sup>th</sup> September 2017
13	World Ozone Day	16 <sup>th</sup> September 2017
14	Vigilance Awareness Week	30 <sup>th</sup> October 2017
15	Rashtriya Ekta Diwas	31 <sup>st</sup> October 2017
16	Birth anniversary of Sir C V Raman & Madam Curie	5 <sup>th</sup> to 7 <sup>th</sup> November 2017
17	International Museum & Science Centre day	8 <sup>th</sup> to 10 <sup>th</sup> November 2017
18	Ramanujan's Birth anniversary	20 <sup>th</sup> to 22 <sup>nd</sup> December 2017
19	34 <sup>th</sup> Anniversary of DSC Kalaburagi	6 <sup>th</sup> to 11 <sup>th</sup> January 2018
20	National Science Day	25 <sup>th</sup> to 28 <sup>th</sup> February 2018
21	International Women's Day	8 <sup>th</sup> March 2018
22	World Water Day	22 <sup>nd</sup> March 2018

**DSC, TIRUNELVELI**

<b>Sl No</b>	<b>Name of the Programmes</b>	<b>Date</b>
1.	World Earth Day	22 <sup>nd</sup> April 2018
2.	National Technology Day	11 <sup>th</sup> May 2018
3.	International Museum Day	18 <sup>th</sup> to 22 <sup>nd</sup> May 2018
4.	World Environment Day	5 <sup>th</sup> June 2018
5.	World Blood Donor Day	14 <sup>th</sup> June 2018
6.	International Day of Yoga	21 <sup>st</sup> June 2018
7.	World Population Day	5 <sup>th</sup> July 2018
8.	Oral Hygiene Day	1 <sup>st</sup> August 2018
9.	World Photography Day	17 <sup>th</sup> to 19 <sup>th</sup> August 2018
10.	International Day of Older Persons	1 <sup>st</sup> October 2018
11.	World Sight Day	8 <sup>th</sup> October 2018
12.	Wildlife Week	8 <sup>th</sup> October 2018
13.	Rashtriya Ekta Diwas (National Unity Day)	31 <sup>st</sup> October 2018
14.	National Unity Day	31 <sup>st</sup> October 2018
15.	International Science Centre and Science Museums Day	10 <sup>th</sup> November 2018
16.	National Mathematics Day	22 <sup>nd</sup> December 2018
17.	National Siddha Day	26 <sup>th</sup> December 2018
18.	DSC T Anniversary Week	22 <sup>nd</sup> to 27 <sup>th</sup> February 2019
19.	National Science Day	28 <sup>th</sup> February 2019
20.	International Women's Day	8 <sup>th</sup> March 2019
21.	World Water Day	22 <sup>nd</sup> March 2019



## Commemorative Programmes

**ACTIVITY**  
**REPORT**  
2018 - 2019

Artefact Demonstration during  
International Museums Day at VITM



Science from Scrap Contest during  
National Science Week at VITM



Quiz contest during  
Brain Awareness Programme at VITM



Drawing contest during  
International Day of Yoga at VITM



Tree Plantation Programme during Earth Day at RSC T



Open House quiz during  
World Health Day at DSC G



Exhibition during  
World Environment Day at DSC T

**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**

<b>SI No</b>	<b>Name of the Programmes</b>	<b>Collaborator</b>
1	App Development Course on Android operating system	IEEE, Bangalore Chapter
2	Workshop on 'Science in Theatre'	India Foundation for Art
3	IEEE –VITM Distinguished Lecture on 'Are We Alone? NASA's Search for Life Beyond Earth	IEEE, Bangalore Chapter
4	Lakshadweep U T Level Science Seminar on 'Industrial Revolution 4.0 - Are we Prepared?'	Dept of Education, U T of Lakshadweep
5	Pondicherry State level Science Seminar on 'Industrial Revolution 4.0 - Are we Prepared?'	Directorate of School Education, Puducherry
6	Andhra Pradesh State level Science Seminar on 'Industrial Revolution 4.0 - Are we Prepared?'	SCERT, Amaravathi, Govt. of Andhra Pradesh
7	LEGO Education Conference on 'Driving Innovation in India through Stem Education'	LEGO EDUCATION (Edutech).
8	Repair and Repay Workshop	India Foundation for Arts
9	Karnataka State Level Science Seminar on 'Industrial Revolution 4.0 - Are we Prepared?'	DIET, Bangalore Rural, RR Nagar
10	Kerala State level Science Seminar on the topic 'Industrial Revolution 4.0 - Are we Prepared?'	Directorate of Public Instructions, Govt. of Kerala
11	Tamil Nadu State level Science Seminar on 'Industrial Revolution 4.0 - Are we Prepared?'	Directorate of School Education, Govt. of Tamil Nadu
14	Talk on 'One-day journey of talking devices'	India Foundation for Arts.
15	32 <sup>nd</sup> Southern India Science Fair	Education Departments of Southern Indian States
16	Exhibition on 'Talking Devices'	India Foundation for Arts supported by TATA Trusts

## RSC, TIRUPATI

SI No	Name of the Programmes	Collaborator
1	Polio Vaccination programmes	SVIMS Hospital and SVRRR Hospital Tirupati
2	Vanam-Manam teachers Programme	National Green Core, Tirupati and DSO, Chittoor, 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	Anti-Pollution Day	A.P. Pollution Control Board, Tirupati
6	Space Week(Man Landing on Moon)	National Atmospheric Research Laboratory, Gadanki
7	Refresher Training for Drivers	RTO, Tirupati
8	Science Seminars	District Educational Officer, Chittoor, Andhra Pradesh.
9	World Ozone Day	A.P. Pollution Control Board ,Regional Office, Tirupati
10	World Water Day	A.P. Pollution Control Board, Tirupati
11	Dr. K. V. Rao scientific quiz	Dr. K. V. Rao Scientific Society, Hyderabad
12	World Earth Hour	World wide p-rogramme
13	Arduino Work shop	IIT. Tirupati
14	National Science Week	Tirumala Tirupati Developers, Tirupati.
15	Brain Awareness Week	SVIMS, Tirupati
16	Birth Anniversary of APJ Abdul Kalam	Institute of Engineers, Tirupati
17	Bapu Khagol Mela	Nehru Planetarium, New Delhi

## DSC, GULBARGA

Sl. No.	Name of the Programme	Collaborator
1	World Environment Day	KSPCB, Regional Office, Kalaburagi
2	Orientation programme for High school Maths & Science teachers	KSCST and DDPI office, Kalaburagi
3	Kalaburagi South Taluk level Science Seminar	DIET, Kamalapur, Kalaburagi
4	Kalaburagi North Taluk level Science Seminar	DIET, Kamalapur, Kalaburagi
5	District level Science Seminar on 'Industrial revolution 4.0	DIET, Kamalapur, Kalaburagi
6	One day Workshop on Innovative Methods in Learning Science	Ahana Systems & Solutions, Bangalore

7	World Ozone Day	KSPCB, RO, Kalaburagi
8	District level Rural IT Quiz	Deputy Director of Public Instructions Kalaburagi
9	District level Science Fair	Dist. Institute of Education & Training, Kamalapur
10	Community training programme on Environmental pollution & protection	KSPCB Regional Office, Kalaburagi
11	Teacher training programme	KSCST, RO, Kalaburagi
12	One day Science Workshop for HPS teachers	Azim Premji Foundation, District unit, Kalaburagi
13	Conference on Effective pedagogy & Methodology in Science teaching for HPS teachers	Azim Premji Foundation, District unit, Kalaburagi
14	National Science Day	Aswini Medicals, Kalaburagi Inner wheel Club of Gulbarga Sun City

### DSC, TIRUNELVELI

SI No	Name of the Programme	Collaborator
1	Five Land Science Festival	Tamil Nadu Science Forum, Tirunelveli
2	Pre-Engineering & Robotics Training Camp	W2B Foundation, Tirunelveli
3	Swachhata Samaroh	9 TN Coy NCC
4	Free Eye Camp	Aravind Eye Hospital, Tirunelveli
5	International Museum Day Exhibition	Nellai Numismatic Philatelic Association, Tirunelveli
6	World Environment Day	Natioal Green Corps & ATREE Trust, Tirunelveli
7	World Blood Donor Day	Life Line Blood Bank, Tirunelveli
8	International Day of Yoga	Nellai City Manavalakkalai Mantram Trust
9	National Children Science Congress	Tamil Nadu Science Forum, Tirunelveli
10	World Population Day	Family Welfare Department & Dept. of School Education, Tirunelveli
11	Mooligai Mutram	Ulaga Tamil Maruthuva Kazhagam, Tirunelveli
12	Career Guidance Programme	District Employment Office, Tirunelveli
13	Special Popular Science Lecture on 'Science of Cloth - Introduction & Overview'	Sirpy Pama Trust, Tirunelveli
14	Oral Hygiene Day	Indian Dental Association (ida)
15	Reframing Your Daily Habits	Max Jones Academy, Tirunelveli

16	World Photography Day	Nellai Photo & Videographers Association, VGPG Club, Tirunelveli
17	International Day of Older Persons	Tamirabharani Educational & Scientific Trust, Tirunelveli
18	World Space Week	IPRC, ISRO Mahendragiri
19	Wildlife Week	Kalakkad Mundandurai Tiger Reserve (KMTR) & ATREE Trust, Tirunelveli
20	Eco Conservator Award	ATREE Trust, Tirunelveli
21	Popular Science Lecture on 'Eye Care Everywhere'	Aravind Eye Hospital, Tirunelveli
22	Swachhata Mission Yatra	Dept..of Food Safety, Tirunelveli
23	Short Film Release on 'Road Safety & Save Water'	Mayuri TV
24	Swachh Bharath Awareness Folk Dance	Field Publicity Office, Tirunelveli
25	Popular Science Lecture on 'Preventive Measures of Dengue Fever'	Govt. Siddha Medical College & Hospital, Tirunelveli
26	Drawing Contest	SAR TV
27	'Avoid Alcohol' Awareness Contest	Dept. of School Education, Tirunelveli
28	ATL Tinkering Lab Orientation Programme	W2B Foundation, Tirunelveli
29	National Siddha Day	Govt. Siddha Hospitals, Tirunelveli
30	Family Quiz	ATREE Trust, Tirunelveli
31	Plastic Pollution Awareness Programme	Anna University Regional Campus, Tirunelveli
32	Teacher's Day	Lions Club, Tirunelveli
33	Inspire Award Exhibition	Dept. of School Education, Tirunelveli
34	Women Awareness Programme	SSA, Tirunelveli
35	District Cultural Programme	Nehru Yuva Kendra, Tirunelveli
36	International Women's Day	Nellai Managara Makkal Mantram
37	Kaivinai Kalaignarkal Award	Kaivinai Kalaingarkal Chartiabale Trust

## Collaborative Programmes

32nd Southern India Science Fair organised by VITM, Bengaluru  
in collaboration with Education Dept, Govt of Karnataka



Repair and Repay Workshop  
held in association with  
India Foundation for Arts at VITM



Workshop on Maths  
and Computational thinking  
organised in association with  
Australian High Commission in India at VITM



Workshop on 'Science in Theatre' organised  
in association with India Foundation for Arts at VITM



Science Expo during  
AP State National Children  
Science Congress  
at KL University, Guntur  
by RSC T



Dist. Science Fair organised  
in association with  
Office of DDPI, Kalaburagi  
at DSC G



Drawing Contest organised on Oral Health Day  
in collaboration with Indian Dental Association, Tirunelveli at DSC T

**EXECUTIVE COMMITTEE (EC)**  
**VITM, BANGALORE**

- |    |  |          |
|----|--|----------|
| 1. | Prof. Sitharam T.G<br>Chairman<br>Department of Civil Engineering<br>Indian Institute of Science<br>C.V Raman Road,<br>Bangalore – 560 012   | Chairman |
| 2. | Dr. M. K. Panduranga Setty<br>Founding Member<br>Visvesvaraya Industrial Museum Society<br>No. 14, Bull Temple Road<br>Bangalore – 560 004   | Member   |
| 3. | Dr. S G Sreekanteswara Swamy<br>Executive Secretary,<br>Karnataka State Council for Science & Technology<br>Indian Institute of Science<br>C.V Raman Road,<br>Bangalore – 560 012                | Member   |
| 4. | Shri Pramod G Galgali<br>Director<br>Jawaharlal Nehru Planetarium<br>Sri T Chowdiah Road, High Grounds<br>Bangalore – 560 001  | Member   |
| 5. | Prof. Siva Umapathy<br>Director<br>Indian Institute of Science Education and Research<br>Bhopal By-pass Road, Bhauri,<br>Bhopal - 462066   | Member   |
| 6. | Dr. Chandan Ghosh<br>Professor<br>Head of the Geo – Hazard Risk Management Division<br>National Institute of Disaster Management (NIDM)<br>Ministry of Home Affairs,<br>Govt of India, New Delhi | Member   |
| 7. | Dr. Nagambika Devi<br>The Principal Secretary<br>Higher Education<br>Govt. of Karnataka<br>Room No. 645, 6 <sup>th</sup> Floor, MS Building,<br>Bangalore – 560 001                              | Member   |
| 8. | Director (Museums),, MoC<br>Member Ministry of Culture, Govt. of India<br>Shastri Bhavan, New Delhi – 110 115  | Member   |

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|-----|---|----------------------|
| 9.  | Shri A.D. Choudhury<br>Director General,<br>National Council of Science Museums,<br>Sector –V, Bidhan Nagar,<br>Kolkata – 700 091                 | Member               |
| 10. | Shri K Madan Gopal<br>Director,<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001                        | Member               |
| 11. | Smt. K.A. Sadhana<br>Curator 'F',<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001                      | Member               |
| 12. | Shri K Sajoo Bhaskaran<br>Curator 'E',<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001                 | Member               |
| 13. | Shri M.M.E. Namboodiri<br>Controller of Administration<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001 | Non Member Secretary |



**PLANNING AND PROGRAMME COMMITTEE (PPC) MEMBERS  
VITM, BANGALORE**

- |    |  |          |
|----|--|----------|
| 1. | Shri Pramod G Galgali<br>Director<br>Jawaharlal Nehru Planetarium<br>Sri.T Chowdiah Road, High Grounds<br>Bangalore- 560001  | Chairman |
| 2. | Prof. Sumantra Chattarji<br>Department of Neurobiology<br>National Centre for Biological Sciences<br>Tata Institute of Fundamental Research<br>Bellary Road, GKVK Campus<br>Bangalore-560065         | Member   |
| 3. | Prof. Amaresh Chakrabarti<br>Chairman<br>Centre for Product Design & Manufacturing,<br>Indian Institute of Science,<br>Bangalore- 560012   | Member   |
| 4. | Prof.Shobhana Narasimhan<br>Professor of Theoretical Sciences and<br>Dean of Academic Affairs<br>Jawaharlal Nehru Centre for Advanced Scientific Research<br>(JNCASR)<br>Jakkur, Bangalore - 560 064 | Member   |
| 5. | Shri Mahesh V<br>Director (R& D)<br>Bharat Electronics Limited<br>Outer Ring Road, Nagavara,<br>Bangalore - 560 045  | Member   |
| 6. | Shri Rajendrasingh P Byali<br>Associate Director,<br>Office of Media & Public Relations,<br>ISRO Headquarters,<br>Antariksh Bhavan, New BEL Road<br>Bangalore – 560094                               | Member   |
| 7. | Dr S Soundararajaperumal<br>Executive Director<br>Tamilnadu Science and Technology Centre<br>Gandhi Mandapam Road, Chennai—600025  | Member   |

- |     |  |                  |
|-----|--|------------------|
| 8.  | Mrs.Veena Sahani<br>Principal<br>Army Public School<br>Kamraj Road<br>Bangalore – 560042   | Member           |
| 9.  | Director General or his Nominee<br>National Council of Science Museums<br>Sector V, Block – GN,<br>Bidhan Nagar<br>Kolkata- 700091 | Member           |
| 10. | Shri K. Madan Gopal<br>Director<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road, Bangalore – 560 001            | Member           |
| 11. | Shri K. Sajoo Bhaskaran<br>Curator ‘F’<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001  | Member           |
| 12. | Smt. K. A. Sadhana<br>Curator ‘G’<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001       | Member Secretary |

**LOCAL ADVISORY COMMITTEE**  
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1	The Vice Chancellor, S.V. University Tirupati – 517 502	---	Chairman
2	Prof. P.V. Ranganayakalu Chief Museum Officer (FAC) SV Museum, TTD, Tirumala, Tirupati	---	Member
3	The Director National Atmospheric Research Laboratory Department of Space Government of India Gadanki – 517 112	---	Member
4	The Member Secretary, APCOST 12 <sup>th</sup> Floor, Gagan Vihar M J Road, Hyderabad – 500 001	---	Member
5	Prof K.N. Ganesh Director & Professor Indian Institute of Science Education and Research (IISER), Tirupati- 517 507	---	Member
6	Dr. Rama Lakshmi Gynecologist & Secretary Indian Red Cross Society #20-119, Red Cross Building PH Road, Chittoor – 517 001	---	Member
7	Shri Lakshmi pathi Secretary, Lions Club D. No. 20-50-S1-100, Plot No. 103, Anandanilayam Appartment Chintalachenu Opp Hero Showroom Renigunta Road, Tirupati – 517 501	---	Member
8	Shri Viswanatha Reddy Correspondent Viswam Schools Varadaraja Nagar Tirupati – 517 501	---	Member

9	The District Educational Officer Office of the DEO Palamaner Road Chittoor – 517 001	---	Member
10	The Municipal Commissioner, Tirupati Municipal Corporation, Tilak Road, Tirupati – 517 501	---	Member
11	Shri K. Madan Gopal Director, Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore – 560 001	---	Member
12	Shri R. Manigandan, Project Coordinator Regional Science Centre, Near Alipiri Gate Tirupati – 517 501	---	Member Secretary

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**LOCAL ADVISORY COMMITTEE  
DISTRICT SCIENCE CENTRE, GULBARGA**

1.	The Deputy Commissioner Mini Vidhana Soudha Station Road, Kalaburagi	---	Chairman
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3.	Additional Commissioner of Public Instructions, Aiwan-e-shahi Area Kalaburagi	---	Member
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6.	Dr. Chandrakant Kelamani Chairman, Department of Biotechnology Kalaburagi University, Kalaburagi	---	Member
7.	District Information Officer Department of Information & Publicity Mini Vidhana Soudha Station Road, Kalaburagi	---	Member
8.	Dr. Shashikant R Mise Professor & Head Department of Environmental Engineering PDA Engineering College, Kalaburagi	---	Member
9.	Dr. Swarup Ranjan Principal Chandrakanth Patil English Medium School Sedam Road, Kalaburagi	---	Member

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| 10. | Shri Subhash Kamalpure<br>Managing Partner<br>Suvanra Financier Groups<br>Suvana Tower, Humnabad Road<br>Kalaburagi – 585 103 | --- | Member              |
| 11. | Shri K. Madan Gopal<br>Director,<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001   | --- | Member              |
| 12. | Shri C.N. Laxminarayana<br>District Science Officer<br>District Science Centre,<br>Municipal Garden<br>Kalaburagi- 585 103    | --- | Member<br>Secretary |

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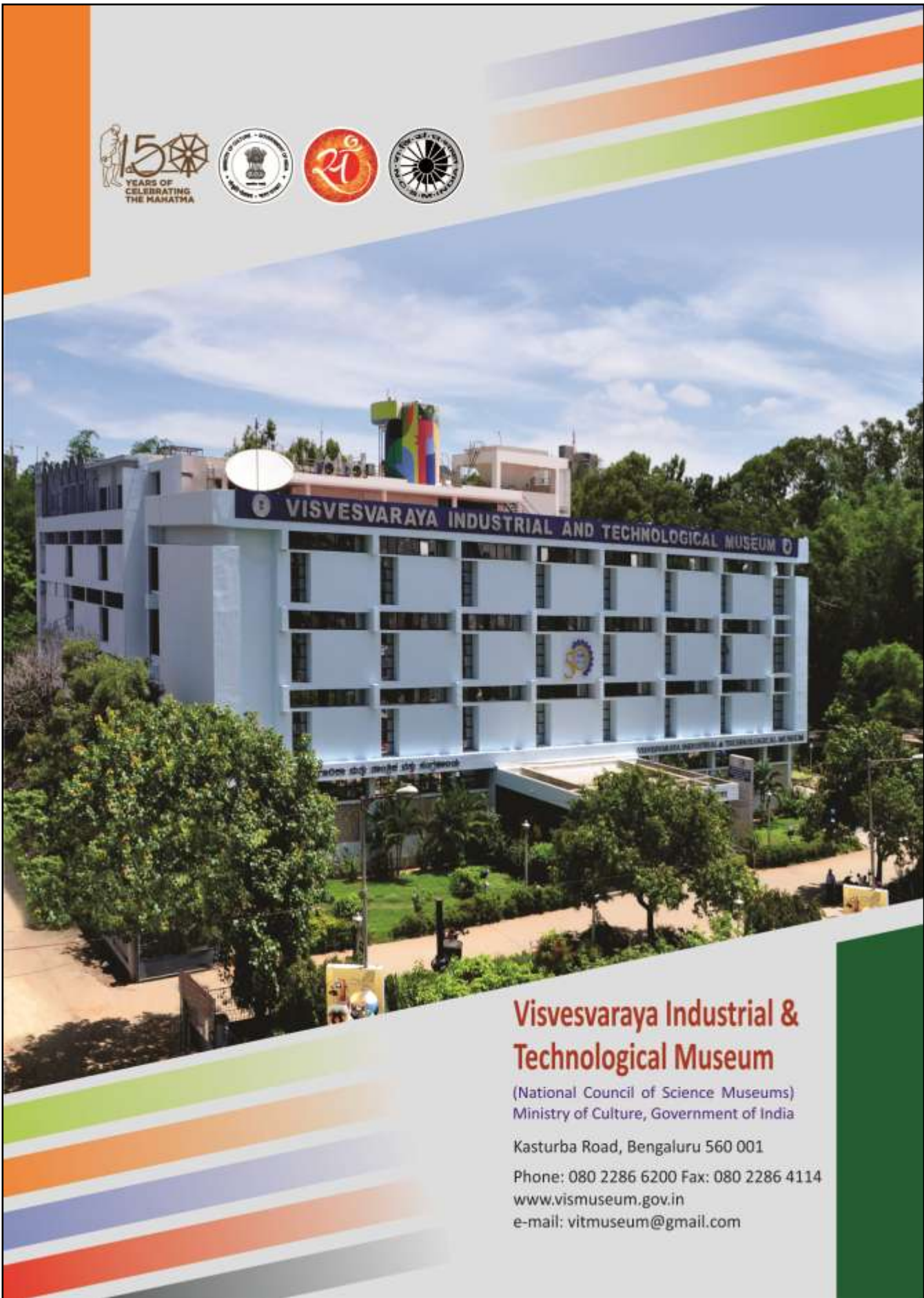
**LOCAL ADVISORY COMMITTEE  
DISTRICT SCIENCE CENTRE, TIRUNELVELI**

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|----|--|-----|-------------|
| 1. | The District Collector & District Magistrate<br>O/o The District Collector<br>Kokkirakulam<br>Tirunelveli – 627 009  | --- | Chairperson |
| 2. | Dr. G Sakthinathan<br>Dean<br>Anna University Tirunelveli Regional Campus<br>Kanniyakumari Road<br>Reddiyarpatti<br>Tirunelveli – 627 007                                | --- | Member      |
| 3. | Shri S Pandian<br>Director<br>ISRO Propulsion Complex<br>Mahendragiri<br>Tirunelveli Dist – 627 133  | --- | Member      |
| 4. | Dr. Anil Kumar<br>Director<br>Equatorial Geophysical Research Laboratory<br>#6/249, SH 40, Vittalapuram Vilakku<br>Tirunelveli – 627 007                                 | --- | Member      |
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| 6. | Dr. M Malarvizhi<br>Principal<br>Sri Sarada College for Women<br>Saradanagar, Ariakulam<br>Maharajanagar – 627 011   | --- | Member      |
| 7. | Dr. S Senthivelmurugan<br>Chief Educational Officer<br>O/o the Chief Educational Officer<br>Adj. Collector Office Campus<br>Kokkirakulam<br>Tirunelveli – 627 009        | --- | Member      |
| 8. | Smt Usha Raman<br>Principal<br>Sri Jayendra Saraswathi Swamigal Golden Jubilee<br>Matric Higher Secondary School<br>Thenkalam Road, Sankarnagar<br>Tirunelveli – 627 357 | --- | Member      |

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| 9.  | Shri S Siva Subramanian<br>Commissioner<br>Tirunelveli City Municipal Corporation<br>Near Schaffter Higher Secondary School<br>Tirunelveli – 627 004 | --- | Member              |
| 10. | Shri S Shanmugam<br>Jt. President<br>The India Cements Limited<br>Sankarnagar<br>Tirunelveli – 627 357   | --- | Member              |
| 11. | Shri K. Madan Gopal<br>Director,<br>Visvesvaraya Industrial & Technological Museum<br>Kasturba Road,<br>Bangalore – 560 001                          | --- | Member              |
| 12. | Shri S. Muthukumar<br>District Science Officer<br>District Science Centre,<br>Kokkirakulam,<br>Tirunelveli - 627009                                  | --- | Member<br>Secretary |

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## Visvesvaraya Industrial & Technological Museum

(National Council of Science Museums)  
Ministry of Culture, Government of India

Kasturba Road, Bengaluru 560 001

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