ACTIVITY R E P O R T 2019-2020



INCS

Visvesvaraya Industrial & Technological Museum

(National Council of Science Museums) Ministry of Culture, Government of India Kasturba Road, Bangalore 560 001

Phone: 080 2286 6200 Fax: 080 2286 4114 www.vismuseum.gov.in e-mail: vitmuseum@gmail.com



2019-2020



VISVESVARAYA INDUSTRIAL & TECHNOLOGICAL MUSEUM

Kasturba Road, Bengaluru - 560 001 E-mail: vitmuseum@gmail.com website: www.vismuseum.gov.in

REGIONAL SCIENCE CENTRE

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

- color

REGIONAL SCIENCE CENTRE AND PLANETARIUM

Jafferkhan Colony Road, Near New Bus Stand Calicut - 673006 planetariumcalicut@gmail.com

rscpcalicut.org

DISTRICT SCIENCE CENTRE

Municipal Garden Kalaburagi - 585 103 sciencegib@gmail.com

DISTRICT SCIENCE CENTRE

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

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Director Visvesvaraya Industrial & Technological Museum Kasturba Road

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ACTIVITY REPORT OF V I T M & ITS SATELLITE UNITS 2019-20

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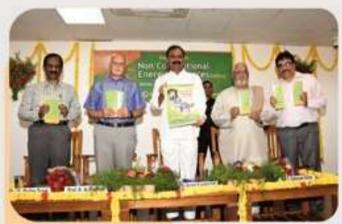
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New Facilities









New Gallery on Non Conventional Energy Resources at RSC T



Non Conventional Energy Resources Gallery at RSC T

Art Installation at RSC & P C

VISVESVARAYA INDUSTRIAL AND TECHNOLOGICAL MUSEUM, BANGALORE

'Science for kids' Gallery at VITM was inaugurated on 19th April 2019 by Prof. Anurag Kumar, Director, Indian Institute of Science, Bangalore The gallery is spread out over an area of 263 Sq Mtrs with 27 interactive exhibits and a separate space for kids to play with science toys.

New Mobile Science Exhibition bus 'Rajaramanna' with exhibits on the theme: 'Space Technology for Human Welfare' was inaugurated on 5th September 2019 at Govt. Pre-University College, Bhimarayanagudi, Shahapur Taluk, Yadgir District (an aspirational district of Karnataka State). In addition a New SDL on 'Space Science' was launched. The exhibition travelled in Raichur districts for 3,348 Kms covering 82 sites in 154 days. 62,860 students and public visited the exhibition. Along with MSE, 353 other programmes such as Science Demonstration lectures, Quiz, Science film shows, Sky Observation Programmes and Virtual Reality programmes were organized. 72,586 students, teachers and general public participated.

'Vigyan Samagam – **Pushing the Frontiers of Science'** was held from 29th July to 24th September 2019. The event was inaugurated on 29th July 2019 by Dr. Anil Kakodkar, Member AEC & Chairman, RGSTC, Mumbai in the presence of Dr. Praveer Asthana, Head, Mega Science Division, DST, New Delhi, Shri. Ranajit Kumar, Head, NCPW, DAE and Prof. V S Rama Murthy, Emeritus Professor, NIAS, Bangalore. Several dignitaries and representatives from facilities namely INO, LIGO, ITER, CERN, FAIR, SKA and TMT were present. This exhibition was a joint collaboration between National Council of Science Museums, Dept. of Atomic Energy, Govt. of India and Dept. of Science & Technology, Govt. of India. During the exhibition, Special Talks, interactive lectures by experts on various topics, quiz and demonstrations were organised.

A Public Lecture on 'Fundamental Research at CERN & much more' by Dr. Fabiola Gianotti, Director General, European Organisation for Nuclear Research (CERN) was held on 30th August 2019 The lecture was followed by an interactive session on 'Doing Business with CERN' by Mr. Jerome Pierlot, Head of Procurement for Accelerator Technology Section, CERN.

A **Special Popular Talk on 'Moon to Mars exploration'** by Dr. Ann Devereaux, Manager, Spacecraft System Engineering, Jet Propulsion Laboratory, NASA, USA was organised on 4th October 2019 at the museum.

VITM organised Workshop on 'Arduino', 'Raspberry Pi' and App Development Course on Android operating system in collaboration with IEEE, Bangalore Chapter in April & May 2019.

VITM organised Travelling Exhibition on 'Statistics at Work'. The exhibition was inaugurated on 28th May 2019 by Dr. V. R. Padmawar, Professor, Stat-Math Unit, Indian Statistical Institute, Bengaluru.

An exhibition on "YOGA SANDESHA – an exhibition on Yoga, Mind & Body" (developed in house in collaboration with Integrated Centre for Yoga, NIMHANS Bangalore) was inaugurated on June 21, 2019 by Dr. Shivaram Varambally, Prof. of Psychiatry, NIMHANS Integrated Centre for Yoga, Bangalore.

A Panel Exhibition on 'Nobel Prizes – 2019' developed in house at VITM was opened at the museum on 10th December 2019.

A Teachers' Training Programme was organised by the museum on 9th September 2019 for High school teachers in collaboration with Australian Consulate, Chennai. The training was conducted by Dr. Stuart Kohlagen, Professor, Australian National University and Director of Science and Learning at Questacon, Australia. 35 Teachers of Bangalore District participated.

54th Anniversary of the Museum was celebrated from 23rd to 27th July 2019 by organising One Minute contest (OMC), Enact a Scientist, Quiz with demonstration, open house quiz on 'Elements of Periodic table' for school students. During the Valediction on 27th July 2019 Dr Maneesha Inamdar, Professor & Chairperson, Molecular Biology & Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore delivered a Popular Science Lecture on 'Stem Cells & Our health.

'Experiencing Science through Museum Activities' (ESMA) a new initiative of VITM for adopting Govt. Schools in Karnataka for enhancing science learning by experiencing was organised in July & August 2019. As part of the programme VITM organised Science Demonstration Lectures on Curriculum based topics like 'Chemical reactions', 'Electricity' & 'Magnetic Effect of electric current', 'Acid-Bases & Salts' and 'Force & Pressure' followed by an interactive session for experimentation by the students. In addition a hands on training on science model making to supplement effective class room science teaching' was also held.

VITM coordinated the organization of State level Science Seminar on the topic 'Periodic Table of Chemical Elements – Impact on Human welfare' in the southern states during September & October 2019.

VITM organised Southern India Science Drama Festival (SISDF-2019) on 27th & 28th November 2019. The festival was inaugurated by Dr. K. Ramakrishnaiah, Professor, Dept. of Performing Arts, Bangalore University on 27th November 2019. 11 teams from various states in South India consisting of 8 students in a team participated and staged plays on various concepts of Science & Society.

The **33rd Southern India Science Fair** hosted by Directorate of School Education, Govt. of Tamil Nadu at Sathyabhama Institute of Science & Technology, Chennai was organised by VITM in collaboration with the Education Departments of Southern Indian States from 28th January to 1st February 2020. The fair was inaugurated on 28th January 2020 by Shri. K A Sengottiayan, Hon'ble Minister for Education, Youth Welfare & Sports Development, Govt. of Tamil Nadu.

Science Film Festival was organised at the museum on 20th and 21st November 2019 in collaboration with Goethe Institute (Max Mueller Bhavan) for Students and general public on the theme HUMBOLDT and THE WEB OF LIFE. The event was inaugurated on 20th November 2019 by Prof. M. Abdul Rehman Pasha, Former Programme Executive, All India Radio, Bangalore followed by Screening of Science films. In addition a Panel Discussion on 'Ecological Balance of the planet earth: Science films – a medium of creating awareness' was also held. Prof. M. Abdul Rehman Pasha, Former Programme Executive, All India Radio, Bangalore and Mrs. Malini Shankar, wildlife photojournalist, radio broadcaster, author, blogger and filmmaker, Bangalore participated in the Panel Discussion. In addition a Workshop on Motion in Animation was held on the next day.

Spend a Day programme was held on 21st December 2019 exclusively for the Tour Operators of Bangalore. About 40 tour operators of Bangalore participated in the programme with their family members. They were exposed to the facilities in the museum through a guided walk along with SoS and 3 D film show.

As part of outreach activity VITM participated in the 107th Indian Science Congress at GKVK Campus of University of agricultural Sciences, Bangalore by setting up NCSM pavilion as part of the **'Pride of India' exhibition** from 3rd to 7th January 2020. In addition Science shows on 'Colour Chemistry', Science V/s Miracles' and 'Liquid Nitrogen' were organised for participating students

and general visitors on 4th and 5th January 2020. About 2,500 students and general visitors participated. The pavilion attracted about 50,000 visitors.

Science Shows on 'Science Vs. Miracle' was organised for students and general public on 20th February 2020 at Govt. Model Primary School, Yeshwanthpur, Bangalore on the occasion of Interschool Science Exhibition for Govt. School students.

VITM participated in the '**Science & Technology Fair 2020**' held from 18th to 20th February 2020 at Sri Kshetra Adichunchangiri, Nagamangala, Mandya Taluk by setting up VITM pavilion with 'Fun Science' exhibits along with MSE exhibits on 'Electricity & Magnetism'. About 12,000 students and general public visited the pavilion.

'Innovation Festival - 2019' was organised from 27th to 29th February 2020 at the museum. Dr. Saragur M Srinidi, President, Advanced Computing and Communications Society, Indian Institute of Science, Bangalore inaugurated the festival on 27th February 2020. During the festival an 'Innovation Exhibition' of products designed by various innovators was on display. Workshops on 'Mathematics & Origami', 'Fun with Gliders' and 'Hydroponics', challenger's corner were part of the festival.

Engineering Fair was organised for ITI and Polytechnic students from 5th to 7th March 2020. Several ITI's and Polytechnics participated in the fair. During the fair Seminar on the theme 'Recent trends in Science & Technology' and 'Team Quiz' on 'Science & Technology' was organised.

International Women's Day was celebrated at the museum on 9th March 2020. Ms. Isha, Pant, Deputy Commissioner of Police, Command Circle, Bangalore was the Chief Guest and delivered a talk on 'Technology for Women's Safety. Dr. Bindya Yohannan, Sr. Counsellor, Parihar, Office of the Commissioner of Police, Bangalore presided and delivered a talk on 'Women Safety'. The talk was followed by live demonstration of defence techniques for women in critical situations.

VITM organised underprivileged children visit from neighboring Districts. 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 Week etc., with various programmes and activities for students, teachers and general public.

REGIONAL SCIENCE CENTRE, TIRUPATI.

A New Gallery on "Non Conventional Energy Resources" was inaugurated at RSCT on 18th November, 2019 by Shri Bhumana Karunakar Reddy, Hon'ble MLA, Tirupati and Prof S. Sudarsana Sarma, Vice-Chancellor Vedic University, Tirupati, The gallery has 40 exhibits on non conventional energy resources such as Solar Energy, Wind Energy, Ocean Energy, Biomass etc.

The Centre launched the new MSE "Nagarjuna' with exhibits on 'Space Technology for Human Welfare'. The exhibition was inaugurated on September 5, 2019 by Hon'ble Deputy Chief Minister of Andhra Pradesh Shri Amzath Basha Shaik Bepari. The bus travelled through a distance of 1,619 Km in Kadapa districts of Andhra Pradesh covering 66 sites in 130 days during September to March 2020. 1,01,961 students and general public visited the exhibition.

Travelling Exhibition on 'Statistics at Work' was inaugurated on 24th July, 2019 by Dr. Amit Kumar Patra, Director, National Atmospheric Research Laboratory, Gadanki

Science Film Festival was organised in collaboration with Goethe – Institute / Max Mueller Bhavan Science Films Were screened for 4 categories followed by panel discussion and activity from $27^{th} - 30^{th}$ November 2019.

The Centre organized several commemorative programmes like International Yoga Day, Earth Day, Environment Protection Week, Ozone Day and International Science Centres & Museums Day, World Space Week, Moon Landing Week, International Museum Week, National Technology Day, NCSM Foundation Day, National Science Week in collaboration with several other organizations for students, teachers and general public.

Fourth Innovation Science Festival was organised from 28th February – 2nd March, 2020. Several innovators from different states like Telangana, Andhra Pradesh, Tamil Nadu and Karnataka participated in the event.

Sky Observation Programme during Partial Solar Eclipse was organised on 26th December 2019. The Centre collaborated with Office of the DEO and AP SCERT in organizing District Level Science Seminar, District Level Science Drama Contest and State Level Science Drama Contest.

The Centre organised several community programmes like Underprivileged children visit to Regional Science Centre, Pulse Polio Progamme and Special Programme for Women and girls during International Women Day.

REGIONAL SCIENCE CENTRE AND PLANETARIUM, CALICUT.

The Centre Launched a New Mobile Science Exhibition bus 'Vainu Bappu' with exhibits on the theme: 'Space Technology for Human Welfare'. The exhibition was inaugurated on November 01, 2019 at Jawahar Navodaya Vidyalaya Kalpetta by Shri. C. K. Sasindran Hon'ble MLA Kalpetta . In addition a New SDL on 'Space Science' was organised. The exhibition travelled in Wayanad district for 2,075 Kms covering 43 sites in 87 days. About 40,124 students and general public visited the exhibition. Along with MSE, 54 nos of other programmes such as Science Demonstration lectures, Quiz and Science film shows, Sky Observation Programmes and Virtual Reality programmes were organized. About 10,250 students, teachers and general public participated.

Global astronomy month was observed at the Centre from 5th to 30th April 2019 by organising various astronomical events and activities like 'Astro image exhibition', 'Moon observation', 'Telescope making workshop', 'Astronomy model making workshop' and 'Astrophotography workshop'.

Creativity workshops were organised in April & May 2019 in **physics** and chemistry through an array of experiments.

50th year of Moon landing was celebrated at the centre from 22nd to 27th July 2019. As part of the event an exhibition 'Touchdown Moon' designed and developed by RSC Calicut was inaugurated by Shri. Thottathil Raveendran, Hon'ble Mayor of Calicut. In addition a Symposium on 'Space dynamics', 'Space maths workshop', 'design aspects of space travel', a seminar on 'Lunar travel-we learn last fifty years' 'painting contest on 'Pre-arrangements for rocket launching' were held. 264 students and general public participated.

A two days conference of 'Contemporary Mathematics Education' was held at the Centre on 3rd & 4th October 2019. The conference focused on strategies that can be used and implemented using non-conventional methods, technology and other teaching practices which would make learning mathematics an enjoyable affair.

Science Film Festival was organised at the Centre from 14th to 16th November 2019 in collaboration with Goethe Institute, Delhi. The theme was HUMBOLDT and THE WEB OF LIFE. The festival was inaugurated by Shri. M. T. Vasudevan Nair a Padma Bhushan & Jnanpith Awardee on 14th November 2019. 14 films were screened during the festival. 2,750 students and general public were present during the film show. An activity titled **Anti-plastic installation of a 14 ft Blue Whale** made out of 7000 throw away plastic bottles was held on 14th November 2019.

As part of **ANNULAR Solar ECLIPSE** two workshops on 'Annular Eclipse' was conducted at Govt. Sanskrit College Pattambi and Kalpetta Civil station on 4th & 7th December 2019 in association with KSSP, Break through Science Society. Demonstration of various projection methods, pin hole camera was part of the workshop. About 220 students and teachers participated. An **Eclipse Van** was developed by the Centre in connection with the annular solar eclipse 2019. 20 displays related to eclipse mounted on the bus conducted programmes at various schools and in Calicut beach. About 13,000 students and general public visited the exhibition.

Annular Solar Eclipse of 26th December 2019 was witnessed by visitors of different category with the arrangements made at the Centre like video projection system, Pin hole camera, Projection boxes, mirror reflection method, telescope fitted with solar filter etc. Break the Fast during Eclipse and Kudumbasree's Ruchippura kitchen was the attraction of the event.

23rd Anniversary of the Centre was celebrated from 25th to 31st January 2020. As part of the event Clay modelling, Open house quiz, workshop on 'learning how to learn STEM' for students and demonstration of Kitchen Chemistry for women were conducted.

A Panel Discussion "**Curbing Corona virus**" was organised at the Centre on 10th February 2020 involving noted doctors and specialists.

A two days workshop on Innovation in Art &Craft was organized at the Centre on 8th & 9th February 2020. Participants were exposed to innovative techniques in Wood craft, Glass painting, Paper craft, etc.

DISTRICT SCIENCE CENTRE, GULBARGA.

District Science Centre, Gulbarga launched a **New Mobile Science Exhibition U R Rao on 'Water and Chemistry in our life.** The facility was inaugurated on 5TH September 2019 by Shri Gurunath Reddy Police Patil, Town Municipal Council, Gurumitkal at Govt. Girls High School, Gurumitkal, Yadgiri District. The bus travelled 2,448 kms covering 84 sites in 146 days. About 64,950 students and public visited the exhibition. Along with MSE 590 programmes like SDL, Films shows, SOP and AR-VR were conducted and 96,123 students and general visitors participated

District Science Centre, Gulbarga opened a Travelling exhibition on 'The Future of Food - Pulses' on 27TH September 2019. The exhibition was inaugurated by Dr. J.R.Patil, Associate Director of research, Zonal Agriculture research Station Gulbarga.

DSCG collaborated with DIET Kamalapur in organizing District level Science Seminar on 'Periodic Table of Chemical Elements: Impact on Human Welfare' on 9th September 2019. Centre also collaborated with DIET and office of the DDPI in organising Dist. Level Science Drama, District level Science fair and Rural IT quiz.

DSC G organised Science Film festival in collaboration with Goethe Institute, Germany / Max Muller Bhavan New Delhi from 20th to 25th November 2019. Various science films were screened on the occasion. Shri Mahesh Patil Ex- Director, Rangayana Kalaburagi inaugurated the films festival,

DSC G made elaborate arrangement to observe partial solar eclipse on 26th Dec. 2019.

District level Science Fair was organised in the Science Centre in collaboration with DIET, Kamalapur on 19th and 20th September 2019.

The Innovation Festival was organized at DSC Gulbarga from 21st to 23rd January 2020. Shri Dil Sukh Jain, Dy Director (Rtd), NRSA-ISRO, Hyderabad inaugurated the festival. Several workshops like Biological model making, Mathematical model making Clay Modeling workshop for school students, 'Challengers Corner', Thod Phod Jod, 'Make & Remake' and Innovators talks on 'Space Technology' & on 'Artificial Intelligence' for general public were part of the festival.

Electronics fair was conducted at the centre for Polytechnic and ITI students of the city on 11th & 12th March 2020' exhibition of electronics models, Seminar on ICT, Team quiz on Computer, Electronics & ICT were part of the fair.

Underprivileged Children visit to the centre was organised from November 2019 to February 2020. They were given guided tour to the facilities of the centre.

DSC G continued its non-formal education extension activities by organizing popular science lectures, Sky observation programmes, Teachers workshop etc., throughout the year. In addition to this several commemorative events such as World Environment day, World Ozone Day, World population day, International Yoga day, International Science centre & Science museum Day, birth anniversary of Srinivasa Ramanujan, Centre's anniversary week, National Science day were observed with various educational activities for students, teachers and public.

DISTRICT SCIENCE CENTRE, TIRUNELVELI.

The Centre launched the new Mobile Science Exhibition bus 'C V Raman' with the exhibits 'Machines in Everyday Life' on 6th December 2019 at S S Govt. Hr. Sec. School, Rajapalayam, Virudhunagar District. The facility was inaugurated by Smt. Subashini, Chief Educational Officer, Virudhunagar. The bus travelled for 926 Km in 58 days covering 33 sites in Virudhunagar District of Tamil Nadu. 20,873 students and general public visited the exhibition.

The Centre associated with the Department of School Education, Govt. of Tamil Nadu to organize the Students' Science Seminar on the topic 'Periodic Table of Chemical Elements – Impact on Human Welfare' and District Level Science Drama contest at the Block and District level.

Special arrangements were made for creating awareness, breaking myths & superstitions and safe observation of Partial Lunar Eclipse and Partial Solar Eclipse. In addition to observation through Telescope, images from telescopes, telecast and webcast from other parts of the World were also projected. Coverage from DSC-T was telecast live in TV Channels.

Panel and Photo Exhibitions on 'Eclipses', 'Gandhi 150', 'Nobel Prize Winners', 'Zero Shadow Day' and 'Thamirabharani Wetlands Birds' were organized

International Museum Day 2019 was celebrated at DSC-T by organising 2-days Exhibition on the topic 'History of Science & Technology through Antiques' in which large number of participants displayed their private collections.

'Experience Science through Science Centre Activities' ESSCA, a new initiative for reaching out to the Govt. / Corporation / Municipal Schools was launched and extended to 6 Middle Schools in Tirunelveli.

'Salaam to Kalaam' Science Fair 2019 was organised at the Centre on 4th & 5th December 2019 in collaboration with Ion Tech Academy, Tirunelveli. District level Inspire Award Exhibition was organised at DSC-T for School students on 7th January 2020 in collaboration with Dept. of School Education, Office of the CEO, Tirunelveli.

Innovation Festival was organised at DSC-T from 23rd to 25th January 2020. Hands-on Workshop on the topics 'Banana Fibre Craft', 'Leaf Art' and 'Coconut Shell Art', 'Native Cowdung Art' were part of the festival.

The Centre 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.

2. (a) GENERAL INFORMATION

Details of Museum / Centre	Visvesvaraya Industrial & Technological Museum	Regional Science Centre Tirupati	Regional Science Centre & Planetarium, Calicut	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. Manash Bagchi 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	Jafferkhan Colony Calicut 673006	Municipal Garden Kalaburagi - 585103	Kokkirakulam Tirunelveli -627 009		
STD Code	080	0877	0495	08472	0462		
Phone Nos.	22864114	2286202	2770571	220608	2500256		
Tele-fax	080-22864114 080-22864009	0877-2286202	0495 2770571	08472-220608	0462-2500256		
E-mail	vitmuseum @gmail.com	rsctirupati@gmail.c om	planetariumcalicut @gmail.com	scienceglb@ gmail.com	Sciencecentrenellai @ gmail.com		
Website	www.vismuseum .gov.in	www.rsctirupati.or g.in	www.rscpcalicut. edu.in	 www.sciencecen trekalaburagi.org .in www.Gulbarga.nic. in/dsckalaburagi 	<u>www.dsctirunelveli</u> org.in		
Working Hours	9.30 AM - 6.00 PM	9.30 AM- 6.00 PM (10.00 AM - 6.30 PM. on Sundays)	9.30 AM - 6.30 PM	9.30 AM - 6.00 PM	10.00 A.M - 06.30 PM		
Closed on	Ganesh Chathurthi & Deepavali	Shiva Rathri & Deepavali	Onam & Deepavali	Ganesh Chaturthi & Deepavali	Pongal & Deepavali		
Admission Fee	 Rs. 50/-per head for general public Rs.25/- for students in organised groups 	 Rs.25/- per head for general public Rs.15/- for students in groups 	Rs.15/- per head for general public Rs.10/- per head for organised school students	 Rs.15/- per head for general public Rs.10/- for students in organised groups 	 Rs. 50/-per head for general public Rs.25/- for students in organised groups 		
Inaugurated on	27 th July 1965	23 rd September 1993	30 th January 1997	6 th January 1984	27 th February 1987		
Total floor area in Sq. Mts.	11,700	4,843	2600	2,080	2,660		
Staff Strength							
Scientific	6	2	2	0	0		
Technical	56	11	11	6	7		
Non Technical	30	8	8	4	4		

2. (b) EXPENDITURE:

Expenditure	VITM,	RSC,	RSC P	DSC,	DSC,	Total
(in Rs.)	Bangalore	Tirupati	Calicut	Gulbarga	Tirunelveli	Total
Recurring	9,35,83,013/-	2,16,08,243/-	174,35,618/-	76,41,966/-	81,79,915/-	1,484,48,755/-
Revenue Receipt	5,81,96,243/-	49,48,135/-	138,72,988/-	27,19,766/-	59,07,170/-	856,44,302/-
Non Recurring						
General	7,37,53,657/-	1,28,65,733/-	151,56,452/-	87,94,740/-	79,38,580/-	1185,09,166/-
CCA	1,10,63,569/-	18,81,530/-	7,98,045/-	20,61,964/-	35,52,139/-	193,57,247
Total Non- Recurring	8,48,17,226/-	1,47,47,263/-	159,54,497/-	108,56,704/-	114,90,719/-	1378,66,413/-

2(C) VISITORS TO MUSEUM/CENTRE:

Name of Museum/Centre	VITM, Bangalore	RSC, Tirupati	RSC P Calicut	DSC, Gulbarga	DSC, Tirunelveli
No. of School groups	2,765	432	1,699	860	728
No of Students in above	1,82,667	32,455	1,28,669	67,243	41,844
No. of Visitors to Special Programme	28,948	29,541	48,158	31,764	19,094
No of General Visitors	5,57,627	89,981	1,74,246	62,372	1,88,743
No. of Free entry (Activity Club members, defence, handicapped etc)	37,791	6,371	0	25,666	2,8631
Total Visitors to Museum/Centre	8,07,033	1,58,348	3,51,073	1,87,045	2,78,312
Visitors to MSE including film shows	1,82,436	2,99,812	1,77,471	2,07,910	91,741
Visitors to Outreach Programmes	1,97,924	27,624	1,79,540	7273	5,607
Total No of visitors to Museum / Centre & outreach Programme	11,87,393	4,85,784	7,08,084	4,02,228	3,75,660

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
	Electrotechnic	723	08.04.2010	27.07.2015	74
	Biotechnological Revolution (Under renovation)	554	04.01.2003	-	73
VITM, Bangalore	Science for Kids	263	30.04.2007	19-04-2019	27
Dangaloro	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

Name of the Museum/ Centre	Name of the gallery	Floor area in Sq. Mts.	Date of Inauguration	Date of major Renovation	Number of Exhibits
	Space Technology	700	19.06.1999	28.11.2017	58
	BEL Hall of Electronics	554	29.06.2004	-	51
	Non Conventional Sources of Energy	370	18.11.2019	-	40
	Our Senses	370	15.10.2005	-	42
RSC,	Illusion	370	17.12.2006	-	45
Tirupati	Emerging Technology	370	18.082007	-	59
	Popular Science	370	07.09.2009	-	44
	Our Universe	370	04.02.2012	-	53
	Space Exposition Hall	381	21.05.2017	-	14
	Fun Science	80	05.05.2011		23
	Life Science	78.14	17.04.2010		12
RSC P	Mirror Magic	165	18.02.2008		29
Calicut	Hall of Astronomy	410	07.03.2010		35
	Hall of Ocean	549	05.05.2018		56
	Planetarium	499.44	30.01.1997	30.12.2015	-
	Fun Science	102	06.01.2004	-	34
	Electronics	806	10.10.2005	-	44
DSC	Popular Science	102	09.04.2012	-	24
Gulbarga	Mathematics	102	17.01.2015	-	33
	Mirror Maze	85	09.04.2012	-	01
	Fun Science	120	16.01.2008	14 th November 2018	22
DSC, Tirunelveli	Electronic Gallery	430	17.04.2009	-	49
riturieivell	Popular Science	150	28.02.1987	-	30
	Mirror Magic	130	22.12.2012	-	26

4. NEW GALLERIES / MAJOR RENOVATIONS:

VITM, Bangalore : Science for kids' Gallery at VITM was inaugurated on 19th April 2019.

RSC, Tirupati : Non Conventional Energy Sources Gallery was opened on 18th November 2019.

DSC, Gulbarga: 8 Persons capacity Lift installed.

SI No	Title of the unit	Name of the Museum/Centre that developed the	No of Exhibits	Year in which developed	Date of major Renovation
		unit		aoronopou	
1.	Popular Science -II (at DSC, Tirunelveli)	VITM, Bangalore	20	1993	-
2.	Machines in Everyday Life (at DSC, Tirunelveli)	DSC, Tirunelveli	20	2019	
3.	Man and Space (at DSC Gulbarga)	VITM, Bangalore	24	1994	-
4.	Water and Chemistry in our life (at DSC Gulbarga)	(at DSC Gulbarga)	20	2019	
5.	Environment (at RSC, Tirupati)	RSC, Tirupati	24	2002	-
6	Biodiversity (at VITM Bangalore)	VITM, Bangalore	24	2007	-
7	Space Technology for Human Welfare'(at VITM Bangalore)	VITM, Bangalore	20	2019	
8	Electricity & Magnetism (at VITM Bangalore)	VITM, Bangalore	20	2017	-
9	Our Senses (at RSC T)	RSC, Tirupati	22	2014	-
10	Space Technology for Human Welfare'(RSC Tirupati at VITM Bangalore)	VITM, Bangalore	20	2019	
11	Popular Science (at RSC P Calicut)	RSC P Calicut	20	2011	
	Space Technology for Human Welfare'(at RSC Calicut)	VITM, Bangalore	20	2019	

6. NEW TEMPORARY EXHIBITIONS (IN HOUSE DEVELOPMENT):

- VITM: 1) Nobel Prize 2019
 - 2) Yoga Sandesha an exhibition on Yoga Body & Mind.
- RSC P1) Touch Down Moon
 - 2) Annular Eclipse

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

Name of the Museum/Cent re	Area of the Science Park in Hectares or Acres	No of Exhibits	of Park	No of exhibits added during the year, if any
VITM, Bangalore	Science Park - 800 Sq. Mtrs.	8		
RSC P Calicut	Science Park -3 acres	48	30.01.1997	2
	Science Park – I 4.5 Acres	58	23.9.1993	-
	Traditional Herb Garden	-	23.9.1995	-
RSC, Tirupati	Pre historic Life Park - 2.5 acres	34	28.5.2003	-
	Science Park Phase – II – 2.5 acres	16	04.2.2012	-
DSC,	Science Park - 2.34 Acres	48	2.03.1995	-
Gulbarga	Prehistoric Animal Park - 0.03 acre	7	9.04.2012	-
DSC,	Science Park &	84	27.02.1987	-
Tirunelveli	Pre historic Life Park – Total 5.69 Acre	10	27.02.2012	-

8. EXHIBIT DEVELOPMENT:

Name of the Museum/Centre	VITM Bangalore	RSC Tirupati	RSC P Calicut	DSC Gulbarga	DSC Tirunelveli
		-		Guibarga	Thuneiven
No. of Gallery Exhibits	19	17	-		-
No. of Park Exhibits	10	2	2		-
No. of Exhibits for Temporary Exhibition	13		20		-
No. of Exhibits for Mobile Science Exhibition	60		0		-
No. of Kits developed (for New Science Shows)	5	12	24	01	17
No. of Duplicate Kits (in-house)	35	-	0	2	545
No. of Duplicate Exhibits (in-house)			5	-	-
No. of Duplicate exhibits (outside agencies)			0	-	-
No. of Duplicate Kits (outside agencies)			0	-	-
No. of Exhibits Renovated- category (gallery/MSE/Temp Exhibition)				1	-
No. of Kits Renovated (mention category - gallery/MSE/Temp. Exhibition)			-	-	-
Total	142	31	52	04	562

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

9. COLLECTION OF ARTEFACTS:

VITM : 1. Letter Press printing machine

RSC T, DSC G and DSC T : TTL Kiran Aircrafts

10. PLANNING:

VITM:

- 1. Construction of SRSC, Rajahmundry
- 2. Modernization of HALL OF ELECTRONICS.
- 3. Execution of Innovation Hubs at Trichi and Puduchery.
- 4. Modernisation of Fun Science gallery

RSC T

- 1. Fabrication of exhibits on Biomimicry.
- 2. Planning & Fabrication of New Science park Exhibits

RSC P Calicut

1. MSE on Mathematics

DSC G

1. Modernization of Fun Science gallery.

DSC - T

- 1. Planning and Fabrication of exhibits on Space Technology
- 2. Planning of exhibits for Electronics Gallery

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:

Name of the Museum/	Name of the Vehicle/Unit		No. of Exhibition	Kms. travelled	No. of Exhibition	No. of Visitors
Centre			Days		Sites	
VITM	Cauvony	Electricity &	145	3,050	95	1,00,894
Bangalore	Cauvery	Magnetism	Magnetism 145	3,050	95	1,00,094
RSC	Sapthagiri	Our Senses	133	1,742	67	1,63,941
Tirupati	Sapthagin	Our Senses	155	1,742	07	1,03,941
RSC P	Periyar	Popular Science	105	1,028	51	1,11,806
Calicut	Fellyai	r opular Science	105	1,020	51	1,11,000
DSC	Bheema	Man and Shaaa	154	963	73	75,280
Gulbarga	Difeema	Man and Space	134	903	13	13,200
DSC	Thamiraharani	Our Environment	110	3,464	63	69,568
Tirunelveli						

Mobile Science Exhibition (MSE)





VITM MSE on Space Technology in Yadgir (Aspirational District of Karnataka)





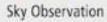
MSE in schools <

V R demonstration









Mobile Science Exhibition (MSE)





RSC T New MSE Bus in Aspirational Districts of Andhra Pradesh



RSC T • Mobile Science Exhibition



RSC & P C MSE programme in Aspirational Districts of Kerala





DSC G Science Demonstration during MSE

MSE programme in Aspirational Districts of Karnataka



DSC T MSE programme in Aspirational Districts of Tamilnadu



DSC T
Model making workshop during MSE

MSE Data for Aspirational District.

Name of the Museum/ Centre	Name of the Vehicle/Unit	Theme of Exhibits	No. of Exhibition Days	Kms. travelled	No. of Exhibition Sites	No. of Visitors
VITM Bangalore	Rajaramanna	Space Technology for Human Welfare'.	154	3,348	82	81,542
RSC Tirupati	Acharya Nagarjuna	Space Technology: For Human Welfare	130	1,619	66	1,35,871
RSC P Calicut	Vianu Bappu	Space Technology for Human Welfare	87	2,075	43	40,124
DSC Gulbarga	U.R Rao	Water and Chemistry in our life	146	2,448	84	1,51,073
DSC Tirunelveli	C V Raman	Machines in Everyday Life	58	926	33	1,73,966

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 53rd 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
	Science is Fun	471	18788	14	2150
	Chemical Reactions	3	390	2	500
	Force & Pressure	2	200	2	150
VITM	Magnetic effects on electric current	4	300	0	0
	Liquid Nitrogen	4	300	2	1000
	Science V/s Miracle	0	0	5	600
	Acid, Bases & Salts	30	1750	2	560
RSC T	Liquid Nitrogen shows	49	5570	6	1880
	Electricity & Magnetism	20	1630	2	490

Name of the Museum/ Centre	Name of the SDL Units Bio Science	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
	Anti Superstition Show	20 15	1650 2200	2	580 1520
	Liquid Nitrogen show	95	8750	14	710
	Chemical Reactions	22	1300	4	190
RSC P Calicut	Properties of light	40	2400	8	320
	Water	33	2120	5	200
	Chemistry in daily life	55	3850	3	145
	Electricity & Magnetism	13	637	6	918
DCC C	Acids, bases & salts	10	481	4	622
DSC G	Science is fun	30	1518	9	1367
	Anti superstition shows	55	2335	7	293
	Anti Superstition Shows	93	8663	06	124
	Electricity & Its Effects	17	1125	-	-
	Cryogenics (Liquid Nitrogen)	38	2684	-	-
	Science is Fun	55	3655	-	-
DSC T	Sound	-	-	06	132
	Light	01	56	-	-
	Air	-	-	09	182
	Heat	-	-	06	129

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	RSC T	1 Day : 01-03-2019	23	2
	SV Zoological Park	1 Day : 18-01-2020	42	3
DSC G	DSCG	1 day : 11.11.2019	149	6



SDL & Science Shows



SDL Mag eff of electric current at VITM



SDL on Chemical Reactions at VITM



Science show at RSC & P C



Science Show at DSC G





Science Show at DSC G

Science on a Sphere Sky Observation



Science on a Sphere at VITM





Sky Observation at VITM

Wright brothers Flyer Simulator at VITM



12(c) ENVIRONMENT AWARENESS PROGRAMME:

Museum / Centre	Venue of the Camp	Duration of Camp (Days & Date)	No of students	No of teachers
RSC T	RSC T	5 Days, 01-06-2019 to 05-06-2019	635	15
DSC G	DSC G	15 days, 5 to19-06-2019	915	35
030 0	DSC G	1 day, 19-06-2019	436	4
RSC P C	RSC P Calicut	1day, 17-04-2019	110	5

12 (d) SCIENCE ON A SPHERE:

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 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	800	28,662

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 Kitty Hawk, North Carolina were 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	12,892	

12(f) FILM SHOWS (VIDEO SHOWS):

Name of the satellite Unit/Centre	No of film shows	Total No of visitors
VITM, Bangalore	6,504	2,80,686
RSC, Tirupati	18	8,200
RSC P Calicut	41	4,750
DSC, Gulbarga	801	14,404
DSC, Tirunelveli	2,905	1,46,750

12 (g) 3-D Shows

Name of the satellite Unit/Centre	No of 3Dshows	Total No of visitors
VITM, Bangalore	3,326	1,06,704
RSC, Tirupati	1,206	29,340
RSC P Calicut	2,668	2,56,485
DSC, Gulbarga	1,485	41,745
DSC, Tirunelveli	1,609	40,966

12(h) POPULAR SCIENCE LECTURES:

Venue	No. of Lectures	No of audience
VITM, Bangalore	93	9,352
RSC, Tirupati	14	3,450
RSC P Calicut	31	3,240
DSC, Gulbarga	15	3,528
DSC, Tirunelveli	12	1,611

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	677	17,131
RSC, Tirupati *	1,131	44,943
RSC P Calicut*	1,658	2,21,510
DSC, Gulbarga *	1,419	39,966
DSC, Tirunelveli *	1,208	34,303

* Digital Planetarium

12(j) SCIENCE QUIZ:

Name of the Museum	No of Quiz Contest held	No of participants	No of Audience
VITM, Bangalore	27	2,240	2,840
RSC, Tirupati	25	2,169	5,381
RSC P Calicut	24	530	1,800
DSC, Gulbarga	45	383	4,408
DSC, Tirunelveli	27	1,538	1,824

12(k) SKY OBSERVATION PROGRAMMES:

Name of Museum	No of Programmes held	No of participants
VITM, Bangalore	22	2,905
RSC, Tirupati	54	5,136
RSC P Calicut	133	14,650
DSC, Gulbarga	61	741
DSC, Tirunelveli	59	6,014

12(I) VIDEO PROGRAMMES OR COMPUTER SOFWARE/MULTIMEDIA PROGRAMMES DEVELOPED

r					
	1. Why satellite				
	2. Eye in the sky				
	3. New Avenues				
	4. Launch Vehicles				
	5. Internet				
	6. Providing healthcare to deprived				
	7. Remote surgery				
	8. Observing earth from space				
	9. Active & passive remote sensing				
	10. Natural resource monitoring				
VITM	11. Helping farmers				
	12. Monitoring Air quality				
	13. Helping fishermen				
	14. Predicting weather				
	15. Urban planning				
	16. Navigation				
	17. Exploring the space				
	18. Space spin offs				
	19. Online registration for various programmes during Vigyan Samagam				
	20. Journey into the cell for BTG				
	21. Mobile App for NCSM Mobile Science Exhibition (MSE) Bus				
	RSC TIRUPATI YOUTUBE CHANNEL Videos				
04	Non Conventional Energy Resources Ultrasonic Sensor based Software for				
01	Non Conventional Energy Resources Gallery				
00	Solar World Scenario Touch Sensor based Software for Non Conventional				
02	Energy Resources Gallery				
00	Wind Farms Across India RFID based Software for Non Conventional				
03	Energy Resources Gallery				
0.4	Wind Energy Potential In India LDR based Software for Non Conventional				
04	Energy Resources Gallery				
05	Green Energy Quiz Software for Non Conventional Energy Resources				
05	Gallery				
	Video Corner- Gas Hydrates for Non Conventional Energy Resources				
06	Gallery				
	Video Corner- Types of Pollutions for Non Conventional Energy Resources				
07	Gallery				
	Biomass – Sequential based software for Non Conventional Energy				
08	Resources Gallery				
	Sun Source of All energy software for Non Conventional Energy Resources				
09	Gallery				
RSC P	Mobile app on Annular Eclipse				
Calicut	Video on 50 year of Moon landing				
Callout					

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	Venue of the	District /	No of	No of	No of	No of	No of
/ Centre	fair/	Zonal /	Schools	Students/	science	projects	visitors
	Camp & Date	State	participated	Participants	clubs		
					participated		
VITM	Sathyabhama Institute of Science & Technology, Chennai 28-01 to 01-02 2020	Zonal	263	265		263	27,950
	'Innovation Festival - 2019' 27 to 29 -02 2020	Zonal		68		40	5,000
	Engineering Fair 5 to 7 -03-2020	Zonal	28	311		91	4,750
RSC T	RSC T 28-02-2020 – 01-03-2020	Zonal		41		26	11,654
DSC G	DSC G 19 to 20-09-2019	District	41	96	0	48	4,198
DSC T	DSCT 04 & 05.12.2019	District	82	381	-	203	4,100

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 on the topic **'Periodic Table of Chemical Elements – Impact on Human welfare'.**

Museum/ Centre	Venue & Date	District/ Zonal/ State	No of students	No of Participating Schools	No of Audience
VITM	G. G Hr. Sec. School, Kadirkamam, Puducherry 04-09- 2019	Pondicherry State level	12	12	100
Bangalore	SCERT, Hyderabad 24-09-2019	Andhra Pradesh State level	27	27	100

Science Fair, Engg Fair & Innovation Festival





Southern India Science Fair



Engineering Fair at VITM



Innovation Festival at VITM



Workshop on Fun with Gliders during Innovation Festival at VITM

Science Fair, Engg Fair & Innovation Festival





Sub District Science fair at RSC & P C



District Level Science Fair at DSC G



Innovation Festival at RSC T



Innovation Festival at DSC T

Workshop during Innovation Festival at DSC T



Electronics fair at DSC G

Science Seminar & Science Drama





State Level Science Seminar at RSC T



District Level Science Seminar at DSC G



District Level Science Seminar at RSC T



District Level Science Seminar at DSC T



Puducherry State Science Seminar



Southern India Science Drama Festival at VITM



State Level Science Drama Contest at RSC T



District Science Drama Contest at DSC G



District Science Drama Contest at DSC T

Vacation Hobby Centre - Camp





Vacation Hobby Centre - Chemistry at VITM



Vacation Hobby Course in Art & Science at VITM



Vacation Hobby Courses in Robotics at VITM



Summer Camp Gardening at RSC T



Summer Camp Bioscience at RSC T



Vacation Hobby Course in Physics at VITM



CAC Electronics at DSC G



CAC Chemistry at DSC G



CAC Electronics at DSC G



VHC Electronics at DSC T



VHC Art Crafts at DSC T

	Godavari Auditorium, SCERT, Hyderabad 24-09-2019	Telengana State level	32	32	90
	Govt. Secondary School Kavaratii 30-09- 2019	Lakshadweep UT level	10	10	77
	Govt. Girls Higher Secondary School Ernakulum, Kerala 04-10-2019	Kerala State level	28	28	75
	Govt. Girls Higher Secondary School, Ashok Nagar, Chennai 04-10- 2019	Tamil Nadu State level	31	31	95
	DIET, Haveri 21-10-2019	Karnataka State level	29	29	90
RSC T	Regional Science Centre, Tirupati 19-09-2019	District	21	21	144
RSC P C	Govt. Model HSS, Calicut, 26-09-2019	District	28	28	300
DSC G	DSC G 09-09- 2019	District	16	16	185
DSC T	DSCT 09-09-2019	District	10	10	116

13 (c) CREATIVE ABILITY CENTRE (CAC):

Name of the Museum/Centre	VITM	RSC-T	RSC P-C	DSC-G	DSC-T
No. of Projects completed in Museum's CAC			37	105	
No. of Creative Ability Centres			8	1	
No. of Students involved in above			80	58	
No. of Vacation CAC in museum	12	10	4	4	
No. of Students involved in above	225	300	40	129	121
No. of Projects completed in above	854	68	10	351	629

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
		10 Days 15 to 26-04-2019	Art & Science	20
	VITM		Chemistry	20
VITM			Electronics	24
VIIIVI			Mathematics	18
			Physics	25
			Robotics	23

			Art & Science	21				
		10 5	Chemistry	16				
		10 Days	Electronics	15				
VITM	VITM	06 to 17–05- 2019	Mathematics	12				
		2019	Physics	11				
			Robotics	21				
		7 Days	Physics	30				
		29-04 to 05-05- 2019	Bioscience	30				
		7 Days	Electrical & Electronics	30				
		06 to 12-05-2019	Robotics	30				
		7 Days	Gardening	30				
RSC T	RSC T	13-05-2019 – 19-05-2019	Astronomy	30				
		7 Days	Science & Art	30				
		20 to 26-05-2019	Computer Science	30				
		7 Days	Mathematics	30				
		27-05 to 02-06- 2019	Chemistry	30				
	RSC P C	08 to 13-04-2019	Fascinating world of Chemistry	30				
RSC P C		29-04 to 04-05- 2019	Robotics Heat and Thermodynamics	20				
		RSC P C	RSC P C	RSC P C	RSC P C	29-04 to 04-05- 2019	Horizons of Science	30
		06 to 11-05-2019	Heat and Thermodynamics	40				
		06 to 11-05-2019	Mazhavillu	40				
		13 to 18-05-2019	VijnanaKouthukam	45				
DSC G	DSC G	03 to 24-04-2019	Physics, Electronics, Chemistry, Biology	351				
DSC T	DSC T DSC T 15 to 26-04-20		Astronomy, Electronics, Art & Crafts	65				
		06 to17-05-2019	Astronomy, Electronics, Art & Crafts	56				

13(e) SIT & DRAW / ESSAY WRITING:

Name of	Venue	Date	Occasion	No. of	Subject
the Museum/ Centre				Participants	
		21-04-2019	Centenary of the Jallianwala Bagh Massacre	15	Revisit Jallianwala Bagh 100 years ago'
Sit &		21-06-2019	International Day of Yoga	27	Yoga Postures
Draw Contest	VITM	24-10-2019	150 th Birth Anniversary of Mahatma Gandhi	60	Gandhi & freedom movement'
		26-12- 2019	'Annular Solar Eclipse'	80	Eclipses
		23-02-2019	National Science Week	30	Indian Scientists & their experiments'
		02-06-2019	World Environment Week	180	Combat Air Pollution
Sit & Draw	RSC T	21-07-2019	Moon Landing Week	220	Lunar Mission Chandrayaan 2
Contest		14-08-2019	World First Aid Day	250	First Aid & Road Safety
Contest		06-10-2019	World Space Week	210	Gaganyaan
		10-11-2019	Kalautsav	50	Science In India
		23-02-2020	National Science Week	220	Science & Technology
		08-06-2019	Environment Awareness week	26	Our Environment
Sit & Draw	RSC P C	27-07-2019	Moon landing Week	72	Pre-arrangements for rocket launching
Contest	C	20-12-2019	Annular Eclipse	24	Eclipse observation
		05-06-2019	World Environment Day	23	Air pollution
		14-04-2019	Centenary of Jallianwala Bagh Massacre	31	Jallianwala Bagh Massacre
Sit & Draw Contest		18-5-2019	International Museum Day	28	Exhibition hall of a science museum
	DSC G	09-06-2019	World environment day	155	Nature, Green House effect , Environment pollution
		21-6-2019	World Yoga day	52	Yogasanas – postures & their names'
		05-10-2019	Swachhta hi Seva programme	136	Tribute to Gandhi by 'clean and plastic free India'

		09-11-2019	4 th International Science Centre and Science Museum Day	89	Chandrayaan -2, Museums – Cultural Hubs
		07-01-2020	36 th Anniversary of DSCG	174	Nature & Environment, Landing on Moon, Energy Resources
		24-02-2020	National Science Day	115	Sir C V Raman & his effect, devices to harness energy
		05-05-2019	Jallianwala Bagh Massacre Centenary	68	Freedom Fighters of India
		05-06- 2019	World Environment Day 2019	115	Air Pollution
		14-06- 2019	World Blood Donors' Day 2019	218	Blood Connects All
Sit &		14-07- 2019	Gandhi 150	196	Gandhian Thoughts
Draw Contest	DSC T	18-08- 2019	World Photography Day 2019	126	Photography Instruments
		28-08- 2019	100 th Birth anniversary of Dr. Vikram Sarabhai	147	Indian Space Programme
		08-11- 2019	World Diabetes Day 2019	158	Health is Wealth
	RSC T	23-02- 2020	DSCT Anniversary Week 2020	347	Healthy Planet
		03-06-2019	World Environment Week-2019	130	Air Pollution
		16-08-2019	Ozone Day 2019	50	Ozone & Environment
Essay Writing Contest		02-10-2019	150 th Birth Anniversary of Mahatma Gandhi & Plastic Free Cleanliness Drive	120	Gandhi & His Dream of Clean India
		31-10-2019	Rashtriya Ekta Diwas	100	Life & Works of Sardar Vallabhai Patel
		01-11-2019	Vigilance Awareness Week	120	Eradicate Corruption – Build a New India
		09-03-2020	International Women's Day	160	Each For Equal
Essay	DSC G		Centenary Jallianwala Bagh Massacre	16	Indian Freedom movement
Writing	2000	09-06-2019	World environment day	28	Air pollution – Causes & prevention

		07-08-2019	Hiroshima and Nagasaki Day	21	Renewable energy resources
		15-09-2019	Engineers' Day	24	life & works of Sir M V
		01-11-2019	Vigilance Awareness week	18	My vision : Corruption free India
Essay Writing	DSC T	14-06-2019	World Blood Donors' Day 2019	139	Give Blood – Gift Life
winning		14-09-2019	Gandhi 150 celebrations	58	Gandhi's Life

14. TRAINING:

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

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

SI. No.	Venue of the Programme	Period of the Programme Date From & to	No. of Teachers trained	No. of teaching aids Developed
1	VITM	09-09-2020	35	5
2	RSC Tirupati	25 to 26-02-2020	270	120
3	RSC P Calicut	22 -04-2019 & 28-02-2020	450	30
4		1-05- 2019	52	16
	DSC Gulbarga	11-12-2019	50	60
		09-01-2020	62	40
5	DSC-	26 to 27-08-2019	33	297
3	Tirunelveli	06-07-11- 2019	31	248

(b) COMPUTER TRAINING PROGRAMME:

Name of the Museum/ Centre	No of Programmes	Duration	No. of participants	Subject
	1	08 to 12-04-2019	21	Workshop on Arduino'
VITM	1	10 to 12-05-2019	19	App Development Course on Android - Five different apps on Fitz
	1	13 to 17-05-2019	10	A workshop on 'Raspberry Pi'
RSC	2	30-08-2019	40	Computer Fundamentals and Skill
Tirupati	_	31-12-2019	40	to Operate Personal Computer
RSC P Calicut	8	18 to 23-11-2019	80	Basics in computer, creation of gmail account, Social media, online services etc
DSC Gulbarga	1	3 to 24-04-2019	15	MS word, excel, PowerPoint, and learnt basic of internet and email
DSC Tirunelveli	01	17-08- 2019	23	How to do online Trading of Household Products

Computer Training & Teachers Training





Workshop on Raspberry Pi at VITM



Workshop on Arduino at VITM



App Development on Android at VITM



Teachers Training Programme at VITM



Teacher Training programme at RSC & P C



Teachers workshop at DSC G



at RSC T

Teacher Training programme at DSC T

Community Programme





Annular Solar Eclipse at VITM





Anto

Children Visit to RSC T







Family Quiz during World Wildlife week at DS



15. COMMUNITY PROGRAMMES:

Name of Museum	Venue of the	Description of media		No. of programmes	No. of participants	No. of audience
VITM	programme VITM	Southern India Science Drama Festival	involved 65	1	88	1,020
RSC T	RSC T	District Level Drama Contest	8	18	140	315
	RSC T	State Level Drama Contest	8	13	75	680
RSC P C	RSC P C	Puppetry (health and hygiene) Telescope making workshop	3 5	5	250 100	40 20
DSC G	DSC G	District Level Science Drama	8	1	64	230
DSC T	DSC T	District Science Drama	06	01	78	124

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

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

Name of the Centre	SI. No	Nature of Programme	Venue	Duration	No. of Participants/ audience
VITM	1	International Women's Day	VITM	09-03-2020	100
	1	Workshop on Bird Nest Making	RSCT	15-08-2019	45
	2	Computer Training Programme	RSCT	30-08-2019 & 31-12-2019	80
RSC T	3	Workshop on Detergent Making for Home Makers	RSCT	10-11-2019	35
	4	Workshop on Robotics	RSCT	10-03-2020	100
-	5	Workshop on Hydroponics	RSCT	05-01-2020	63
RSC P	1	Nature awareness programme –Prakrithi padam	RSC P	17 -04-2019	55
С	2	Star Party	RSCP	23-04- 2019	75

	3	Beach side astronomy	Calicut beach	25-04- 2019	250
	4Bio diversity Day5International Day of Yoga		RSC P	22-05-2019	85
			RSC P	21 -06- 2019	40
	6	World Sickle cell Day	RSC P	23-06-2019	105
	7 Transform		RSC P	01-07-2019	110
	8	Day with Snake	RSC P	5-07- 2019	95
	9	Hiroshima Day	RSC P	6 -08- 2019	60
	10	Swachhtha Hi Sewa Campaign	Sarovaram	25-09-2019	115
	11	National Thalassemia Day	RSC P	17-11-2019	55
DSC G	1	Preparation of Origami boxes, Rakhi making out of silk & woolen thread & silk thread Jewellary	DSCG	24 & 25-07- 2019	45
	2	Art & Craft from waste	DSCG	18-06-2019	24

16. COMMEMORATIVE EVENTS:

Events like World Earth Day, World Environment Day, National Science Day and World Science Day and National Technology Day were held with science related activities

Name of the Museum/Centre	No. of programmes
VITM, Bangalore	13
RSC, Tirupati	19
RSC P Calicut	11
DSC, Gulbarga	21
DSC, Tirunelveli	24

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	"YOGA SANDESHA – an exhibition on Yoga, Mind & Body"	21-06-2019 to 10-07-2019	28,500	Developed in house at VITM	22	
	Nobel Prizes 2019	10-12-2019 to 31-03-2020	1,25,000	Developed in house at VITM	6	

Travelling Exhibitions





Statistics at Work Exhibition at VITM



Vigyan Samagam - Inauguration Programme at VITM



Vigyan Samagam ITER Week at VITM live plasma demonstration & models of plasma applications



Statistics at Work Exhibition at RSC T



Exhibition on Touch down Moon at RSC & P C



Traveling Exhibiton on pulses at DSC G



Exhibition on Nobel Prize 2019 at DSC T

	Statistics at Work	29-05-2019 to 10-07-2019	60,000	NCSM	28	4
	Vigyan Samagam – The frontiers of Science	29-07-2019 to 28-09-2019	1,28,349	Department of Atomic Energy, Dept. of Science & Technology, Govt. of India and CERN	118	41
RSC T	Statistics at Work	24-07-2019 to 26-11-2019	52,000	VITM	28	4
RSC P	Touchdown Moon	22-07-2019 to 31-08-2019	6,500	Developed at RSC P	30	10
C	Eclipses	15-12-2019 to 25-08-2019	13,000	Developed at RSC P	15	5
DSC G	The Future of Food - Pulses'	27-09-2019 to 25-10- 2019	6,748	DSC Purulia	42	5

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	17
RSC, Tirupati	16
RSC P Calicut	14
DSC, Gulbarga	10
DSC, Tirunelveli	35

19. LIBRARY & INFORMATICS:

Name of the Museum/	ltem	Total holding as on 01-04-19	No. Acquired during the year 2019-2020	No. Written off during the Year	Net holding as on
Centre		44.074		2019-2020	31-03-2020
	Books	11,071	51	-	11,122
	Journals **	6	6	-	6
	Film 16mm	242	-	-	242
VITM	Video Tapes/	500	-	-	500
	CD/DVD ROMS	405	-	-	405
	Slides	1,765	-	-	1,765
	Maps & Charts	151	-	-	151
	Books	396		-	396
	Journals**	3		-	3
RSC T	News Letters	-		-	-
	Maps	2		-	2
	Charts	2		-	2
	Books	1,862	40	-	1,902
RSC P	Journals	12	12		24
RSC P C	Film 16mm	8	-	-	8
	CD/DVD	196	2		198
	Books	787	35	-	822
	Journals **	1	-	-	1
	Film 16mm	0	-	-	0
DSC G	Video Tapes	43	-	-	43
000 0	Slides	13 sets	-	-	13 sets
	Audio Cassettes		-	-	0
	Educational CDs	9	-	-	9
	Books	1,188	08	-	1,196
DSC T	CD / DVD	33	-	-	33
	16mm films	09	-	-	09

** Renewal only

20. PUBLICATIONS:

Name of the Museum/ Centre	Name Of The Publication		Number Printed	Expenditure Incurred (in Rs.)
VITM	Anutarang (Vigyan Samagam Booklet)	Multi colour Offset	2,500	1,90,000-00

	MSE Broacher (Multilingual)	Multi colour Offset	6,000	14,000-00
	MSE Broacher (Machines)	Multi colour Offset	1,000	12,495-00
RSC T	Posters for International Day of Yoga	Digital Laser Printing	12	360-00
RSC P C	RSC News letter	Offset printing	500	10,000-00
DSC G	Poster for innovation festival	Multicolour Digital Print	10	200-00

21. CONSTRUCTION:

Name of the Unit	Name of the work	Tender Value of Work * (Rs. In lakhs)	Date of Commencement	Date of Completion
	Civil works for modernization of Goods elevator	8.167	16-10-19	21-12-2019
	Providing Painting Room in workshop	5.01	15-10-19	14-12-2019
	Modernization of 3rd Floor visitors toilet at VITM, Bengaluru	9.49	3-10-19	1-11-2019
VITM	Providing safety mesh for windows at back side of VITM and External painting rear block and internal painting at selected places of VITM	19.14	27-12-19	10-03-2020
	Rectification of sewer line at backyard of VITM, Bengaluru	1.96	11-12-19	20-12-2019
	Providing white topping in front of Visitors entrance at VITM, Bengaluru	4.19	2-02-20	5-03-2020
	Providing waterproofing treatment on terrace of C and E Block of VIMSA	4.64	29-10-19	12-12-2019
	Modernisation of Goods Elevator of OTIS make (Spillover of 2018-19)	20.04	16-12-2018	10-07-2019

	Providing Cubicles in Office	5.0	15-08-2019	10-09-2019
RSC T	Providing street lights in Science Park	4.74	19-12-2019	07-01-2020
	Replacing UG HT cable for supply of electricity	1.99	27-11-2019	19.12.2019

RSC P	Construction of existing ticket counter, security	6.23	3-02-2020	Work in
С	cabin & entrance main gate			progress
	Providing Umbrellas and Seating arrangements for canteen (Outdoor)	1.49	15-09-2019	10-08-2019
DSC G	Installation of TTLE Kiran TAIL No. U-809 at DSCG	1.33	27-11-2019	27-11-2019
	Miscellaneous civil works in C/W MRL lift at DSC, Gulbarga	1.42	17-02-2020	2-03-2020
	Spillover of Providing Lift	16.02	21-01-2019	18-07-2019
	Extension of Stores at DSC, Tirunelveli	7.68	25-10-2019	24-11-2019
	SITC of Fire fighting system	8.36	27-05-2019	25-07-2019
DSC T	Construction of Parapet wall &Water proofing of Terrace of Main Building	10.53	17-10-2019	15-12-2019
	Installation of TTLE HPT- 32 Aircraft at DSC T	1.27	25-10-2019	24-11-2019
	Miscellaneous works in connection with fire fighting works at DSC T	1.69	17-02-2020	12-03-2020

22. PROCUREMENT OF EQUIPMENT:

(Under PL-5 (iv) – Costing Rs.5000/- or more)

Museum /	Name of the Equipment	Date of	Cost (Rs)
Centre		procurement	0001 (110)
	Adobe creative cloud	16-07-2019	35,164-00
	Liquid Nitrogen Container (Cryocan- 7.08 ltr)	29-08-2019	22302-00
	Split AC with accessories 2.0- 2 Nos & 1.5- 1 No.	19-06-2019	1,38,444-00
	Adobe creative cloud – all apps individual device license 2 nos	19-07-2019	76662-00
	Visual studio professional 2019 academic version	04-09-2019	6,195-00
	Electronic article surveillance system	04-09-2019	68,057-00
	Auto desk media entertainment collection – 1 user for 1 yr	17-09-2019	104044-00
VITM	Split A/c 2.0- 2 Nos 1.0- 1 No	16-09-2019	1,77,760-00
	Visual studio professional 2019 academic version	04-09-2019	6,195-00
	ARES std 2019 with 3 yrs maintenance perpetual license	30-09-2019	49,560-00
	JIG Saw machine Bosch make	11-12-2019	1,21,80-00
	Cordless Screw Driver	11-12-2019	19,340-00
	12 mm collet	11-12-2019	11,329-00
	Cordless screw driver – Heavy duty	24-01-2020	38,680-00
	Split A/c – inverter	03-02-2020	49,500-00
	Mitre Saw 2 Nos.	03-02-2020	1,12,277-00
	Welding Machine MIG - GeM	14-11-2019	94,799-00
	DLP projector	31-07-2019	77,440-00
	Desktop Computer	17-01-2020	1,00,084-00
RSC P C	Napkin destroyer	17-01-2020	22,313
	Saw machine	11-02-2020	5,61,381-00
	Conference room chairs	09-03-2020	18,600-00
RSC T	Liquid Nitrogen Container (Cryo can)- 7.08 ltr	29-08-2019	22,302-00

Museum / Centre	Name of the Equipment	Date of procurement	Cost (Rs)
DSC G	Mobile science exhibit bus, Make & Model :TATA LP712 EX/42, BS-IV, diesel engine with standard accessories - 1 No.	22-07-2019	24,93,903-00

		77 440 00
DLP Projector having hybrid LED & Laser light with carry bag, make CASIO, Model:XJ-V10X - 1 No.	22-07-2019	77,440-00
Tripod projector screen 8'x6' Libert make	22-07-2019	6844-00
Portable PA System Ahuja make model: WA 635 DPR - 1 No.	22-07-2019	15,576-00
Portable Computerized telescope Make & model: Celestron, Nexstar 102SLT with all accessories - 1 No.	22-07-2019	1,10,070-00
MRL Passenger elevator 8 person capacity - 1 No.	30-06-2019	16,02,000-00
250 LPH, RO Plant- 1 No.	15-11-2019	80,000-00
30 LPH, RO Plant- 1 No.	15-11-2019	55,000-00
Camera – 2MP, IR Network Dome camera	18-10-2019	49,000-00
with power supply ; Samsung - 2 Nos.		+18% GST
Camera – 2MP Network IR bullet camera with	18-10-2019	74,550-00 +
power supply ; Samsung - 3 Nos		18% GST
Door frame metal detector , model checkmate – IIIS ; - 1 No.	24-12-2019	56,640-00
Portable generator Honda make model:EU30is ; - 1 No.	29-08-2019	96,256-00
3D printer - 1 No.	25-10-2019	49,699-00
Cordless drilling machine - 1 No.	29-01-2020	16,390-00 +
		GST18%
Liquid Nitrogen Container (Cryocan)- 25.5 ltr metal	06-06-2019	35,951-00
Liquid Nitrogen Container (Cryocan)- 7.08 Itr	29-08-2019	22,302-00
Metal Detector- CCA	18-02-2020	65,490-00

Museum/	Name of the equipment	Date of	Total
Centre		procurement	Cost(Rs.)
	2 MP Network IR Dome Camera Samsung – outdoor – 04 Nos	18-10-2019	1,17,292-00
	2 MP Network IR Dome Camera Samsung – Indoor – 04 Nos	18-10-2019	1,15,640-00
	Almirah Steel – 01 No	11-11-2019	15,900-00
	Almirah Shelf – 01 No	11-11-2019	10,190-00
DSC T	Almirah Steel – 02 Nos	11-11-2019	19,830-00
	Air Conditioner – 04 Nos	02-12-2019	1,67,000-00
	Computer Dell – 03 Nos	16-12-2019	1,53,813-00
	File Cabinet Drawer type – 01 No	11-11-2019	10,990-00
	File Cabinet – 01 No	11-11-2019	12,890-00
	Metal Detector Door Frame – 01 No	24-12-2019	8,640-00

2.8 KVA Generator Portable – 01 No	29-08-2019	6,256-00
Inverter Microtec – 01 No	29-08-2019	7,649-00
12V Battery – 02 Nos	29-08-2019	13,135-00
TVS MSP 450 Star Printer – 01 No	22-01-2020	11,300-00
Sofa Set Wooden (3+1+1) – 01 No	29-03-2019	46,800-00
LCD TV 55" - 02 Nos	11-02-2020	1,04,960-00
LCD TV 88" - 02 Nos	11-02-2020	7,42,400-00
LCD TV 55" - 04 Nos	22-02-2020	2,61,120-00
Teapoy – 01 No	11-11-2019	10,572-00
Liquid Nitrogen Container (Cryo can)- 7.08 ltr	29-08-2019	22,302-00

23. PERSONNEL:

(a) APPOINTMENT – New appointments and persons joining on transfer from other museums / centres
 VITM, Bangalore

SI	Name of	Cadre &	Designation	Pay	Date of	Basic	Highest	Date of
No.	the person	Group		Scale	Joining	Pay in	Educational	Birth
	Shri	Scie/Tech		Pay		Rs.	Qualification	
	/Smt/Ms	/Adm		Matrix				
				Level				
1	Shri. Siddi	Adm	OA.Gr.(III)	Level-2	10.04.2019	19,900/-	M.Sc	05.06.1995
	Sreenivas							
2	Shri. Ajai K.S.	T.A	T.A (Civil)	Level-5	12.04.2019	29,200/-	Dip. Civil	04.06.1981
							Engg.	
3	Shri. P.	Tech	Tech'A'	Level-2	14.06.2019	19,900/-	ITI (Carpentry	17.12.1986
	Dhiravidamani							
4	Shri. Athul	Tech	Tech 'A'	Level-2	27.12.2019	19,900/-	ITI.(Fitter)	25.10.1995
	Raj C.							

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 Promotio n in Rs.	Effective date of Promotion
1	Smt. K. A. Sadhana	Curator 'F' Level-13A	Curator 'G' Level-14	1,81,500/-	1,93,800/-	11.04.2019
2	Shri. K Sajoo Bhaskaran	Curator 'E' Level-13	Curator 'F' Level-13A	1,34,500/-	1,43,300/-	11.04.2019
3	Shri R. Shanthini Devi	Lib. Off. 'A' Level-07	Lib. Off. 'B' Level-9	60,400/-	65,200/-	30.05.2019
4	Shri Mahesh Kumar Naik	Tech. Asst. 'B' Rs.9,300- 34,800/- GP 4,200/-	Tech. Off. 'A' Level-7	17,940/- (as per 6 th CPC)	49,000/-	30.05.2019
5	Shri G. Muthukumar	Technician 'B' Rs.5,400- 20,200/-,GP- 2,400/-	Tech 'C' Level-05	11,380/- (as per 6 th CPC)	31,900/-	30.05.2019
6	Shri Arumugam R.	Tech 'B' Rs.5,200- 20,200/-, GP 2,400/-	Tech 'C' Level-05	11,380/- (as per 6 th CPC)	31,900/-	30.05.2019
7	Shri Hariprasad K.	Tech 'B' Rs.5,200- 20,200/-, GP 2,400/-	Tech 'C' Level-05	11,380/- (as per 6 th CPC)	31,900/-	30.05.2019
8	Shri Savarigire	Tech 'B'	Tech 'C'	11,040/-	31,000/-	30.05.2019

9	Selvan S. Shri M. Sudalaimani	Rs.5,200- 20,200/-, GP 2,400/- Tech 'B'	Level-05	(as per 6 th CPC)		
		2,400/-		0.0)		
		•				
			Tech 'C'	11,040/-	31,000/-	30.05.2019
10	Oddalainiani	Rs.5,200-	Level-05	(as per 6 th	01,000/	00.00.2010
10		20,200/-, GP	20101 00	CPC)		
10		2,400/-				
10	Shri	Tech 'B'	Tech 'C'	11,040/-	31,000/-	30.05.2019
	Mohammad	Rs.5,200-	Level-05	(as per 6 th	51,000/-	30.03.2013
	Abdul Khaleeq	20,200/-, GP		CPC)		
		2400/-				
11	Shri Siddaling	Tech 'B'	Tech 'C'	11,040/-	31,000/-	30.05.2019
	Shin Siddaling	Rs.5,200-	Level-05	(as per 6 th	31,000/-	30.03.2019
		20,200/-, GP	Level-05	CPC)		
		2,400/-		CFC)		
12	Shri	Tech 'A'	Tech 'B'	22,400/-	26,300/-	30.05.2019
12	Revanasiddappa	Level-02	Level-04	22,700/-	20,000/-	00.00.2013
13	Shri Ajjappa	Tech 'A'	Tech 'B'	22,400/-	26,300/-	30.05.2019
15	S.Devashetti	Level-02	Level-04	22,400/-	20,000/-	50.05.2015
14	Shri B.	Tech 'A'	Tech 'B'	21,700/-	26,300/-	30.05.2019
17	Harshavardhana	Level-02	Level-04	21,700/-	20,000/-	50.05.2015
15	Shri Purushothama	Edu. Asst 'A'	Edu.Asst 'B'	33,900/-	36,500/-	30.05.2019
	N.T.	Level-05	Level-06	00,000/	00,000/	00.00.2010
16	Shri Ambaraya	Driver (OG)	Driver Gr(II)	25,200/-	27,100/-	23.06.2019
10	Onnyanibaraya	Level-02	Level-04	20,200/	27,100/	20.00.2010
17	Shri Bharadan R.	Edu. Off. 'C'	Edu.Off. 'D'	85,800/-	91,400/-	14.08.2019
		Level-11	Level-12	00,000,	01,100,	1 110012010
18	Shri	Tech. Off. 'C'	Tech. Off. 'D'	85,800/-	91,400/-	14.08.2019
	Premkumar L.	Level-11	Level-12		0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
19	Shri Anup	Artist 'A'	Artist 'B'	21,700/-	25,500/-	30.08.2019
	Kumar Paul	Level-02	Level-04	_ ,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	,,	
20	Shri V. C.	Artist 'B'	Artist 'C'	28,700/-	31,000/-	30.08.2019
	Sasikumar	Level-4	Level-05		- ,	
21	Shri Ramesh	Tech 'B'	Tech 'C'	28,700/-	31,000/-	30.08.2019
	D.Baskaware	Level-04	Level-05	-,	- ,	
22	Shri Mareppa H.	Tech 'B'	Tech 'C'	28,700/-	31,000/-	30.08.2019
		Level-04	Level-05		- ,	
23	Shri S.	Tech 'B'	Tech 'C'	28,700/-	31,000/-	30.08.2019
	Venkatesha	Level-04	Level-05	,	,	
24	Shri Galatage	Lib. Off. 'B'	Lib. Off. 'C'	75,600/-	80,900/-	06.12.2019
	Kumar Maruthi	Level-09	Level-11			
25	Shri K.Srinivas	Tech 'B'	Tech 'C'	28,700/-	30,100/-	10.01.2020
-		Level-04	Level-05	,	,	
26	Shri	Tech 'B'	Tech 'C'	28,700/-	30,100/-	10.01.2020
	Mahadevaswamy M		Level-05	, ,		_
27	Shri Jestin	Tech 'E'	Tech 'F'	50,500/-	52,000/-	10.01.2020
	Joseph	Level-06	Level-07			
28	Shri R. Vijayan	Tech 'F'	Tech 'G'	60,400/-	63,300/-	10.01.2020
		Level-07	Level-09			

29	Shri S.Gopinath	Tech 'F'	Tech 'G'	58,600/-	61,500/-	10.01.2020
		Level-07	Level-09			
30	Shri E.	Tech 'F'	Tech 'G'	56,900/-	59,700/-	10.01.2020
	Subramanian	Level-07	Level-09			
31	Shri	Tech 'F'	Tech 'G'	56,900/-	59,700/-	10.01.2020
	N. Narayana	Level-07	Level-09			
32	Shri	Tech 'F'	Tech 'G'	56,900/-	59,700/-	10.01.2020
	Bore Gowda	Level-07	Level-09			
33	Shri Chandra	Edu.Asst.'B'	Edu.Off. 'A'	16,900/-	46,200/-	13.01.2020
	Sekhar Prasad	GP-4,200/-	Level-07	(as per 6 th CPC)		
34	Shri Prasanta	Edu.Asst.'B'	Edu.Off. 'A'	16,900/-	46,200/-	13.01.2020
	Kumar Biswal	GP-4,200/-	Level-07	(as per 6 th CPC)		
35	Shri Bhute	Exbh.Asst. 'B'	Exbh.Off. 'A',	16,900/-	46,200/-	13.01.2020
	Mahendranath	GP-4,200/-	Level-07	(as per 6 th CPC)		
36	Shri Senthil	Tech.Asst.'B'	Tech.Off. 'A'	43,600/-	46,200/-	25.01.2020
	Kumar C	Level-06	Level-07			
37	Shri Narayana	Tech 'E'	Tech 'F'	50,500/-	53,600/-	09.02.2020
	Swamy C.	Level-06	Level-07			
38	Shri Binoj K.	Edu.Asst. 'B'	Edu.Off. 'A'	43,600/-	46,200/-	23.02.2020
		Level-06	Level-07			
39	Shri Saidalavi	Tech 'A'	Tech 'B'	21,700/-	25,500/-	19.03.2020
	Ekkaden	Level-02	Level-04			
40	Shri Manash	Curator 'D'	Curator 'E'	91,400/-	1,23,100/-	13.03.2020
	Bagchi	Level-12	Level-13			
41	Shri Rajendran M	Driver Gr.I	Driver Spl.Gr.	35,900/-	36,500/-	18.03.2020
		Level-05				

23(c) TRANSFERS:

SI No	Full Name of personnel Shri/smt/Ms	Designation	Transferred fromto	Date of Relief/ joining
1	Shri Srinivas Murthy C.	Tech. Off. 'A'	RSC Tirupati to NSC Mumbai	09.10.2019

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	Shri B. Vishnumoorthi Bayari	DCFA	VITM	Retirement	31.05.2019
2	Shri Durgaiah Y.	Edu.Off. 'C'	RSC, T	Retirement	30.06.2019
3	Shri Anandan S.	Tech. 'G'	VITM	Retirement	30.11.2019

24. MISCELLANEOUS:

24 (a) DISTINGUISHED VISITORS

VITM, BANGALORE

- 1. Prof. Anurag Kumar, Director, Indian Institute of Science, Bangalore
- 2. Dr. Anil Kakodkar, Member AEC & Chairman, RGSTC, Mumbai
- 3. Dr. Praveer Asthana, Head, Mega Science Division, DST, New Delhi,
- 4. Shri. Ranajit Kumar, Head, NCPW, DAE
- 5. Prof. V S Rama Murthy, Emeritus Professor, NIAS, Bangalore
- 6. Dr. V. R. Padmawar, Professor, Stat-Math Unit, Indian Statistical Institute, Bengaluru.
- 7. Dr. Fabiola Gianotti, Director General, European Organisation for Nuclear Research (CERN)
- 8. Dr. K. Kasturirangan. Former Chairman ISRO & Former Secretary, Dept. of Space, Govt. of India.
- 9. Shri K N Vyas, Chairman, Atomic Energy Commission & Secretary, Dept of Atomic Energy, Govt. of India.
- 10. Shri Arun Srivastava, Secretary, AEC & Head, ICPD, NCPW- DAE, Govt. of India.
- 11. Dr. Stuart Kohlagen, Professor, Australian National University and Director of Science and Learning at Questacon, Australia.
- 12. Dr. Ann Devereaux, Manager, Spacecraft System Engineering, Jet Propulsion Laboratory, NASA, USA.
- 13. Dr. Saragur M Srinidi, President, Advanced Computing and Communications Society, Indian Institute of Science, Bangalore
- 14. Dr. Taslimarif Saiyed, CEO & Director, Centre for Cellular & Molecular Platforms (an initiative of Dept. of Biotechnology, Govt. of India), Bangalore.
- 15. Shri. A. Vijay Simha, Member, Advisory Committee, Lemelson Foundation, USA
- 16. Ms. Isha, Pant, Deputy Commissioner of Police, Command Circle, Bangalore
- 17. Dr. Bindya Yohannan, Sr. Counsellor, Parihar, Office of the Commissioner, Bangalore

RSC, TIRUPATI

- 1. Shri Bhumana Karunakar Reddy, Hon'ble MLA, Tirupati
- 2. Prof. K. N. Ganesh, Director, Indian Institute of Science Education and Research, Tirupati
- 3. Dr. Arun Kumar Bhaduri, Director, Indira Gandhi Centre for Atomic Research, Kalpakam
- 4. Shri. P. Gopikrishna, Group Director, MSA, Satish Dhawan Space Centre, Sriharikota,

RSC & P, Calicut

- 1. Shri. A. K. Saseendran : Minister for Transport, Govt. of Kerala
- 2.Shri. Sreeram Sambasiva Rao, District Collector, Kozhikode
- 3. Shri. A. Pradeepkumar, MLA Kozhikode
- 4. Shri. Thottathil Raveendran, Hon. Moyor, Kozhikode
- 7. Shri. K. K. Ragesh, MP (Rajysabha)

DSC, GULBARGA

- 1. Shri. S. K. Jena, r. Manager (HR), Corporate Communication Group, Nuclear Power Corporation of India Limited, Mumbai
- 2. Dr. Banuprakash K, Chief Scientist, Indian Institute of Chemical technology, Hyderabad
- 3. Shri Dil Sukh Jain, Dy Director (Rtd), NRSA-ISRO, Hyderabad
- 4. Shri R. Satyanarayana, Outstanding Scientist, Nuclear Power Corporation of India Ltd, Kaiga, Karnataka

DSC, TIRUNELVELI

- 01. Shri K Thirumal, I.F.S., District Forest Officer
- 02. Smt Shilpha P Satish, I.A.S., District Collector, Tirunelveli
- 03. Shri M Sivaguru Prabhaharan, I.A.S., Sub Collector, Tirunelveli
- 04. Smt K Suganthi, Deputy Commissioner, Vigilance, S.GST, Tirunelveli
- 05. Smt Hemalatha, Additional Chief Conservator of Forest, Tirunelveli
- 06. Dr Ponraj, Scientific Advisor to Former President Dr A P J Abdul Kalam
- 07. Shri Deepak M Damor, Commissioner of Police, Tirunelveli City
- 08. Shri Saravanan, Deputy Commissioner, Tirunelveli City
- 09. Shri Gnana Thiraviyam, Member of Parliament, Tirunelveli

24(b) MEDIA PROGRAMMES IN WHICH STAFF PARTICIPATED:

Centre	Name of the Staff	Name of the media	Type of the programme	Broadcast on
	Shri R. Manigandan PC, RSCT	Krishna Teja Channel	Partial Solar Eclipse	26-12-2019
RSC T	Shri R. Manigandan PC, RSCT	SCV Cable	Innovation Festival	28-02-2020
	Shri. MMK Balaji Curator, RSCT	ABN TV	Partial Solar Eclipse	26-12-2019
	Shri. MMK Balaji Curator, RSCT	E TV Telugu	Tirupati Bird Festival	07-12-2019
	Shri N. T. Purushothama Edn Asst 'B', RSCT	Sakshi TV	Partial Solar Eclipse	26-12-2019
RSC P	Shri. Manash Bagchi P C	Asianet News 18 Mathrubhumi	Interview on Annular Eclipse	26-12-2019
C	Shri. Jayanth Ganguly TO "C"	Media One ACV	Talk on Annular Eclipse	25-12-2019
	Shri. K. M. SUNIL EO "B"	All India Radio	National Science day Quiz	28-02-2020
DSC G	Shri C. N. Laxminarayana DSO, DSCG	AIR Kalaburagi	Talk on Importance of National Science day	01.03.2020
	Shri S M Kumar, DSO, DSCT	Puthiya Thalaimurai	Vacation Hobby at DSCT	08.05.2019
	Shri S M Kumar, DSO, DSCT	Mayuri TV	Science Kits for Effective Classroom	06.11.2019
	Shri S M Kumar, DSO, DSCT	Hello FM	Sustainable Developmen is our Goal	08.11.2019
	Shri S M Kumar, DSO, DSCT	Suriyan FM	Solar Eclipse	23.12.2019
DSC T	Shri S M Kumar, DSO, DSCT	Bharani TV	Solar Eclipse & Myths	24.12.2019
	Shri P Marilenin, EO, DSCT	Suriyan FM	Special arrangement for Solar Eclipse	26.12.2019
	Shri P Marilenin, EO, DSCT	Puthiya Thalaimurai	Special arrangement for Solar Eclipse	26.12.2019
	Shri S M Kumar, DSO, DSCT	Jeya TV, News 18, Thanthi TV	When, Where & How to Observe Solar Eclipse	26.12.2019
	Shri P Marilenin, EO, DSCT	Mayuri TV , Bharani TV	Special arrangement for Pongal Holidays	16.01.2020

24(c) POPULAR LECTURES BY STAFF

Centre	Venue	Date	Торіс	Speaker (Shri/Mr)	Audience
	GKVK Campus, University of Agricultural Sciences, Bangalore	04-01-2020	Challenging Concepts in Science to sustain interest	Shri. K. Madan Gopal, Director, VITM	250
VITM	Infosys Campus, Bangalore	04-03- 2020	Women in Engineering	Smt. K. A. Sadhana, Curator 'G' VITM	300
	Christ University Campus, Bangalore	05-03- 2020	Women in Technology	-do-	200
RSC T	Sri Govindaraja Swamy High School, Tirupati (Science Fair Cum Exhibition)	04-07-2019	Hands On – Mind On	Shri. R. Manigandan PC, RSCT	1,500
	GITAM High School	15-08-2019	Role of Science Centres' in enhancing Understanding Science	-do-	1,200
	Ananda vedika: framing happy curriculum at Viswam school, Tirupati	12-09-2019	Teaching science with fun and misconception s in science	-do-	280
	Arya Vysya Yuvajana Sangam, Tirupati	15-09-2019	Water Conservation Responsibility of Everyone	-do-	850
	Youth Hostel Gandhi Peace Foundation	02-10-2019	Gandhi & Science	-do-	50
	SKEIT Engineering College, Puttur	10-10-2019	Space Infinite Oppurtunity	-do-	4,400
	Pre Departure Camp Nort East Zone	11-10-2019 – 17-10-2019	Solving Problems in Astronomy	Shri. M.M.K. Balaji Curator, RSCT	30
	27 th AP State National Children Science Congress Sri Padmavathi Mahila Visvavidyalayam	25-11-2019	Science and Innovation	Shri. R. Manigandan PC, RSCT	1,200
	Curriculum Development For Implementation Of Outcome Basde Teaching – Learning": Annamacharya Institute Of Technology & Science, Tirupati	28-11-2019	Science in Engineering- Bridging the Gap	-do-	200

	Innovation Space RSCT	15-12-2019	Innovative Ideas 2020	-do-	45
	JNNSMEE 2019 Chittoor District Science Fair: Sri Padmavathi Mahila Visvavidyalayam	15-12-2019	Science Through Hands On	-do-	2,500
	INNOVATIONS & PATENTS: S V U College of Engineering, Tirupati	27-12-2019	'Innovation- Bridging the Gap'	-do-	650
	Sri Chaithanya School, Tirupati	26-01-2020	Role of Science Centre in enhancing & Understanding Science	-do-	800
	Mahatma Gandhi Municipal Corporation School:	28-02-2020	Science Exhibitions for Better Understanding	-do-	1,500
	Ravindra Bharathi School, Tirupati	20-02-2020	Life & Works of CV Raman	-do-	860
RSC P Calicut	Providence Girls HSS	18-05-2019	Role of Museum in Science communication	Shri. Manash Bagchi PC	260
	MJ HSS ElettilThamarassery	19-07-2019	Moon Explorations	-do-	350
	RSC P Calicut	24-12-2019	The Cosmic Shadow palay	-do-	110
	RSC P Calicut	24-12-2019	On the origin of Saros	Ganguly Technical officer C	110
	Kalpetta Civil station Hall	07-12-2019	How to observe Annular Eclipse	Shri. K. M. Sunil EO	135
DSC G	Innovative international School, Kalaburagi	18-08-2019	Renewable energy resources	C. N Laxminarayana DSO	135
	Vedha Public School, Kalaburagi	14-11-2019	Science and Technology	-do-	533
	Viswadhama High School, Sedam	23-11-2019	Health and Nutrition	-do-	925
	Govt. Higher primary School, Kalanoor, Kalaburagi	28-11-2019	Scientific temper	-do-	478
	Satyapriya School of Excellence, Kalaburgai	28-12-2019	Scientific temper	-do-	406
	innovative International School, Kalaburgai	29-12-2019	Scientific attitude	-do-	755
	Sir Sai School, Kalaburgai	24-01-2020	Scientific attitude	-do-	292

	Faraan PU College, Kalaburagi	22-02-2020	Role District science Centre in developing scientific awareness	-do-	583
	Sambuddha Degree College Aland, Kalaburagi	27-02-2020	National Science day	-do-	369
	Atal tinkering lab at Govt. High School , KSRP colony, Tajsultanpur	05-03-2020	Esay Experiments and activities to learn science	-do-	335
DSC T	College, Tirunelveli	11-07-2019	Global Impactof Population Explosion	Shri S MKumar, DSO, DSCT	340
	St.Xavier's College, Tirunelveli	12-07-2019	Air Pollution & Mitigation	-do-	165
	Anna University Regional Campus, Tirunelveli	07-08-2019	Science, Engineering & Society	-do-	295
	National Engineering College, Kovilpatti	29-08-2019	Zero Shadow Day	-do-	565
	Kanchi Sri Sankara Academy, Tiruchendur	31-08-2019	Zero Shadow Day	-do-	460
	Pop's College, Sayarpuram	05-09-2019	Science for Society	-do-	125
	VOC College, Thoothukudi	10-12-2019	Safely Observing Solar Eclipse	-do-	228
	Sadakadulla Appa College, Tirunelveli	19-12-2019	Animal Preserving Techniques	-do-	256
	Science Camp, Kayalpattinam	01-01-2020	Carrier Opportunities in Pure Science	-do-	86
	Success Matric Hr. Sec.School,Tenkasi	21-01-2020	STEAM Education	-do-	624
	BMC Matric Hr.Sec.School, Thoothukudi	06-02-2020	Inventions that Shaped the World	-do-	482
	Chathram Bharathi Hr.Sec.School, Kadayam	07-02-020	Mistakes that leads to Great Inventions	-do-	412
	DSC T	11-02-2020	Joy of Star Watching	-do-	54
	Sri Jayendra S Golden Jubilee Matric Hr.Sec.School, Tirunelveli	15-02-2020	Inventions in Daily Life	-do-	412

Johnson's Primary School, Thoothukudi	01-03-2020	Inspirations from Scientists	-do-	356
Govt. Hr.Sec.School, Sivalaperi	11-03-2020	Global Issues and Local Solutions	-do-	139
VOC College, Thoothukudi	10-12-2019	Safely Observing Solar Eclipse	-do-	228

(d) FOREIGN DEPUTATIONS:

RSC T: Shri. M M K Balaji, Curator RSC T represented NCSM with the Indian Delegation in International Astronomy Olympiad held at Piatra Neamt, Romania from 18th to 27th October 2019

SCIENCE PARK EXHIBITS :

V.I.T.M BANGALORE

- 1 Stationary Steam Engine - 1926
- 2 Swings of different lengths
- 3 Portable Steam Engine
- 4 Archimedes Screw
- 5 Sun Dial

RSC TIRUPATI

SI. No.	Name of the Exhibit
1	A Swing is A Pendulum
2	Sympathetic Swing-I
3	Trace a Pattern
4	Compound Pendulum
5	Straight Line or Circle?
6	Swing a Quintal
7	Variable Pendulum
8	Inclined Planes
9	Pulleys Lift Loads
10	Lever Reduces Effort- 3No.s
11	A Sea-Saw is a Lever
12	Pulley Drive
13	Gear Train
14	Worm Wheel -2 Nos.
15	Check your weight
16	Lift Yourself
17	Roller Coaster - 2 Nos.
18	The Acrobatic Ball
19	Minimum Time path
20	Rolling and Sliding
21	Segregation of Balls
22	Guess the Length
23	Size and Distance
24	Ellipse Tracing
25	Möbius Band
26	Impossible Triangle
27	Weightlessness
28	Turn Faster
29	Moment Wheels(3 Discs)

29 Moment Wheels(3 Discs)

- Hydro-Electric Generator Reaction Turbine
- 7 Railway Engine – SMR Metre Gauge1888
- 8 H F 24 Aircraft

6

- 9 Solar Street Light
- 10 Solar Water Pump

SI. Name of the Exhibit No.

- 30 Action and Reaction
- 31 **Cone Runs Uphill**
- 32 Win the Race
- 33 **Centrifugal Force**
- 34 Echo tube
- 35 ISIS
- 36 Whispering garden
- 37 **Musical Bars**
- 38 **Elliptical Speaking Tube**
- 39 Optic Tree
- 40 Bird In a Cage
- 41 World Minus Colours
- 42 Perception of Depth
- 43 A simple Camera
- 44 Nipkov's Disc
- 45 Oscillating or Rotating
- 46 Archimedes Screw
- 47 Moment of Inertia
- 48 Balancing (Moment)Wheel
- 49 Sun-dial
- 50 Geodesic Dome - Rabbits Cage - 1
- 51 Geodesic Dome - Rabbits Cage - 2
- 52 Geodesic Dome - Rabbits Cage - 3
- 53 Geodesic Dome - Pigeon Cage
- 54 Geodesic Dome - Ducks Cage
- 55 Sympathetic Swing - II
- 56 Animal in a Cage
- 57 Spider Web
- 58 HPT-32 Deepak

Pre Historic Life Park

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

SCIENCE PARK – Phase II

- 1 Lift yourself
- 2 Probability
- 3 Rolling Discs
- 4 DNA
- 5 Sea-saw as a Pump
- 6 Pin Screen
- 7 Transverse Wave Propagation
- 8 Laminar or Turbulent
- 9 Variable Swing

- 10 Relative Motion
- 11 Earth-Moon System
- 12 Racing Balls
- 13 Bouncing Balls
- 14 2D to 3D
- 15 Scientists 8 Nos
- 16 Mathematical Totems -13 Nos

RSC P Calicut

- 1. Echo tube
- 2. Who speaks
- 3. Weightlessness
- 4. Rolling & sliding
- 5. The acrobatic ball
- 6. Minimum time path
- 7. Roller coaster
- 8. Mobius band
- 9. Musical bars
- 10. Whispering garden
- 11. A swing is a pendulum
- 12. World minus colours
- 13. Perceiving depth
- 14. Bird in cage
- 15. Variable pendulum
- 16. Compound pendulum
- 17. Lever-l
- 18. Lever-II
- 19. Lever reduces effort
- 20. See-saw is a lever
- 21. Inclined plane
- 22. Pulley lifts loads
- 23. Simple camera
- 24. Action & reaction
- 25. Pulley & Gears
- 26. Gear Train
- 27. Revolving Faster
- 28. Worm Wheel
- 29. Straight line or circle
- 30. Evolution of Man
- 31. Oscillation or Rotation
- 32. Sympathetic pendulum
- 33. Lift yourself
- 34. Giant lever
- 35. Pulley Reduces Effort
- 36. Giant Archimedese screw

- 37. Magical swing
- 38. Yo Yo
- 39. Delayed Hearing
- 40. Energy Drum
- 41. Standing See Saw
- 42. Dome climber
- 43. Balancing Block
- 44. Orbital Clinmber
- 45. Sun to phone
- 46. Magical swing
- 47. Bouncing ball
- 48. Tensigrity structure

DSC, GULBARGA

1.	Archimedes'	Screw
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- 2. Musical Bars
- 3. Musical Pipes
- 4. Lever Reduces Effort
- 5. II and III Order Lever
- 6. Projective Geometry
- 7. Inclined Plane
- 8. Pulley Lift Loads
- 9. Variable Pendulum-I
- 10. Variable Pendulum-II
- 11. Sympathetic Swing
- 12. Echo Tube
- 13. Swing is a Pendulum
- 14. Gear Train
- 15. Worm Wheel
- 16. Pulley Drive
- 17. Roller and Coaster
- 18. Acrobatic Ball
- 19. Rocking Chair
- 20. Cone Runs Uphill
- 21. Camera Obscura
- 22. Straight Line Or Circle
- 23. Nipkov's Disc
- 24. Bird In a Cage

PREHISTORIC ANIMAL PARK EXHIBITS

- 1 Dimetrodon
- 3 Gallimimus
- 5 Corythosaurus
- 7 Spinosaurus

- 25 Minimum Time Path
- 26 Geodesic dome 5m dia-4 Nos.
- 27 Geodesic Dome-15m dia 1 No.
- 28 Parabolic sound Reflectors
- 29 Sun dial
- 30 Action and Reaction
- 31 Periscope
- 32 Torsional Oscillation / Wave motion
- 33 Geodesic Dome 3m Dia 1 No.
- 34 Amusing Seesaw
- 35 Mobius Band I
- 36 Mobius Band II
- 37 Sea Saw is a lever
- 38 Size and Distance
- 39 Kinetic wheel /Yo-Yo wheel
- 40 DNA Model Double Helix
- 41 RNA Model
- 42 Centrifugal force
- 43 Water Wheel
- 44 Check your weight
- 45 Lift your self
- 46 Perspective drawing
- 47 Steam Engine Horizontal
- 48 Turn faster
 - 2 Scelidosaurus
 - 4 Psittacosaurus
 - 6 Tyrannosaurus rex

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

SI. Name of the Exhibit No.

- 1 Dimetrodon
- 2 Stegosaurus
- 3 Corinthosaurus
- 4 Tyrannosaurus Rex
- 5 Gallimimus

SI. Name of the Exhibit

- No.
- 6 Baluchitherium
- 7 Glyptodon
- 8 Spinosaurus
- 9 Psittacosaurus
- 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.	Why satellite	Mobile Science Exhibition (Aspirational District)	VITM, RSC Tirupati & RSC P Calicut
2.	Eye in the sky.	-do-	-do-
3.	Orbits.	-do-	-do-
4.	Launch vehicles	-do-	-do-
5.	Internet	-do-	-do-
6.	Resources Sources Monitoring	-do-	-do-
7.	Active and Passive Element	-do-	-do-
8.	Remote Surgery	-do-	-do-
9.	Telemedicine	-do-	-do-
10.	Helping Formers.	-do-	-do-
11.	Monitoring Air Quality	-do-	-do-
12.	Weather report	-do-	-do-
13.	Urban planning	-do-	-do-
14.	Disaster Management	-do-	-do-
15.	Helping fisherman	-do-	-do-
16.	Navigation	-do-	-do-
17.	Exploring the space	-do-	-do-
18.	Space Spin-offs.	-do-	-do-

19.	Observing Earth from the space.	-do-	-do-
20.	New Avenues	-do-	-do-
21.	Blue Eye Vs Brow Eye	Biotechnology Gallery	VITM
22.	DNA Replication	-do-	-do-
23.	Sickle cell Anemia	-do-	-do-
24.	How similar are we!	-do-	-do-
25.	Louis Pasteur	-do-	-do-
26.	Diversity	-do-	-do-
27.	Electrophoresis	-do-	-do-
28.	Enzymes	-do-	-do-
29.	Boy or Girl	Human Biology Gallery	DSC, Gulbarga
30.	How Lungs work	-do-	-do-
31.	Peristalsis motion	-do-	-do-
32.	Iris	-do-	-do-
33.	How muscles work	-do-	-do-
34.	Human body joints	-do-	-do-
35.	how we swallow	-do-	-do-
36.	Reaction time	-do-	-do-
37.	View your blood vessel (See your veins)	-do-	-do-
38.	Know your teeth	-do-	-do-
39.	Constellations	Science Park	KSTA
40.	Swing is a pendulum - 2 sets	-do-	-do-
41.	Levers	-do-	-do-
42.	Turn Faster	-do-	-do-
43.	Planetary motion	-do-	-do-
44.	Lift your self	-do-	-do-
45.	Identify the Magnets -	Fun Science Gallery	New Science Centres
46.	Pebble Chimes	Science Park	New Science Centres
47.	Archimedes Screw	-do-	-do-
48.	Sea saw Pump	-do-	-do-
49.	Nobel Prizes 2019 (Panels – 6 Nos)	Temporary Exhibition	VITM

50.	Corona Virus	-do-	-do-
51.	Concentration, Memory & Emotion in Children (Panel exhibit)	Yoga Sandesh – an exhibition of Yoga, Mind and Body	VITM
52.	Autism & Attention Defect Hyperactive Disorder (Panel exhibit)	-do-	-do-
53.	Technology Addiction (Panel exhibit)	-do-	-do-
54.	Substances yielding Disorders (Panel exhibit)	-do-	-do-
55.	Adolescents (Panel exhibit)	-do-	-do-
56.	Girls (Panel exhibit)	-do-	-do-
57.	Physical Stamina, Motor Coordination health of Children (Panel exhibit)	-do-	-do-

MSE Exhibits each exhibit is 3 set (3 set x 20 Nos) One each for VITM, RSC T and RSC P, C

KITS/AIDS DEVELOPED

During TTP

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1.	Centrifugal Force	Kit	
2.	Air Rocket	Kit	
3.	Bernoulli's cone	Kit	
4.	Balancing Balloons	Kit	
5.	Potential & Kinetic Energy	Kit	

RSC, TIRUPATI

SI. No.	Name of the exhibit	Name of the Gallery for which it is made	Centre for which it is developed
1	Wind Power	Non Conventional Energy Resources	RSC T
2	Geothermal Energy	do	do
3	Energy Storage Devices	do	do
4	Sterling Engines	do	do
5	Green Energy	do	do
6	Harvesting Solar Energy	do	do

7	Wind Energy Potential	do	do
8	Bloom Energy	do	do
9	Gas Hydrates	do	do
10	Tidal Energy	do	do
11	Environmental Issues	do	do
12	Flying Wind Turbine	do	do
13	Bio-fuel	do	do
14	Human Power	do	do
15	Muscle Energy	do	do
16	Wind Farm Across India	do	do
17	Wave Energy	do	do

KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1	DNA Model With Beads	Kit	RSCT
2	Osmosis	do	do
3	Bluetooth Operated Car	do	do
4	Temperature V/s Resistance	Kit (Cold Show)	RSCT
5	Temperature V/s Chemical Reaction	do	do
6	Bernoulli's Principle	Kit	RSCT
7	Colour Shadow	do	do
8	Photosynthesis in action	do	do
9	Singing Tube	do	do
10	Centripetal Force	do	do
11	Hydroponics	Innovation	RSCT
12	Bernoulli's Maze	Kit	RSCT
13	Triangular Pyramid Puzzle	do	do
14	Total Internal Reflection	do	do

RSC P Calicut

SI No	Name of the Exhibit Completed	Name of the Gallery for which it is made	Centre for which it is developed
1.	Tensigrity stool	Fun Science	RSCP Calicut
2.	Structure	Science Park	-do-
3.	Bouncing ball	-do-	-do-
4.	Day and Night	Temporary exhibition Touchdown Moon	-do-
5.	Why we see always only one side of Moon from Earth	-do-	-do-
6.	GSL V Mark 111	-do-	-do-
7.	Chandrayaan 2	-do-	-do-
8.	Lunar Lander	-do-	-do-
9.	Lunar Rover	-do-	-do-
10.	Moon Buggy	-do-	-do-
11.	Inner core of Moon	-do-	-do-
12.	Be an Astronaut	-do-	-do-
13.	Tides	-do-	-do-
14.	Apollo missions	-do-	-do-
15.	Saturn V rocket	-do-	-do-
16.	Facts about Moon	-do-	-do-
17.	Indian Moon Missions	-do-	-do-
18.	Vikram lander	-do-	-do-
19.	Pragyan Rover	-do-	-do-
20.	Facts about eclipse	-do-	-do-
21.	How eclipse occurs	-do-	-do-
22.	Pin Hole Camera	-do-	-do-
23	Projection box with telescope	-do-	-do-

KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1.	Snake Pendulum	Kit for SDL	RSC P
2.	Cone Runs up hill	-do-	-do-
3.	Ohms law	-do-	-do-

4.	Transverse wave	-do-	-do-
5.	Periscope	-do-	-do-
6.	Mirror magic	-do-	-do-
7.	Induction apparatus,	-do-	-do-
8.	Compound pendulum	-do-	-do-
9.	Magnetic lines of force	-do-	-do-
10.	Jumping disc	-do-	-do-
11.	Magnetic doll	-do-	-do-
12.	DC Motor	-do-	-do-
13.	Planetary Motion	-do-	-do-
14.	Reflecting mirror	-do-	-do-
15.	Eclipse projection box	-do-	-do-
16.	Turia	-do-	-do-
17.	Mobious band	-do-	-do-
18.	Chaotic pendlulum	-do-	-do-
19.	Gear Train	-do-	-do-
20.	Transformer	-do-	-do-
21.	Lazy tube	-do-	-do-
22.	Wind mill	-do-	-do-
23.	Series and parallel resistance	-do-	-do-
24.	First order lever	-do-	-do-

DSC, GULBARGA

KITS/AIDS DEVELOPED

SI No	Name of the exhibit	Type of exhibit	Gallery / Centre for which made
1	Tesla coil – using solid state devices	Exhibit for Demonstration	Fun Science Gallery
2	Tesla coil – using solid state devices	Kit	SDL
3	Tesla coil – using solid state devices	Duplicate kit	Outdoor SDL

<u>ANNEXURE – 3</u>

POPULAR SCIENCE LECTURE

VITM, BANGALORE

SI. No.	DATE	ΤΟΡΙϹ	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	17-04-2019	'Treasure from the Trash'	Ms Padma of 'Stone soup'	VITM	100
2	29-05-2019	'Statistics at Work'	Dr. V. R. Padmawar, Professor, Stat-Math Unit, Indian Statistical Institute, Bengaluru	VITM	100
3	21-06-2019	Yoga for wellness of humans'	Dr. Shivaram Varambally, Prof. of Psychiatry, NIMHANS Integrated Centre for Yoga,	VITM	100
4	27-07-2019	'Stem Cells & Our health'.	Dr Maneesha Inamdar, Professor & Chairperson, Molecular Biology & Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	VITM	240
9	06-08- 2019	'Probing neutrinos with cool detectors'.	Prof Vandana Nanal, TIFR, MUMBAI Mumbai	VITM	80
10	06-08- 2019	Cosmic rays'.	P R Vishwanath, TIFR, MUMBAI	VITM	85
11	06-08- 2019	Why particle physics needs big experiments'	Prof Rohini Godbole from IISc , Bangalore	VITM	79
12	07-08- 2019	Probing neutrinos with coo detectors'.	Prof Vandana Nanal from TIFR, Mumbai'	VITM	65
13	07-08- 2019	Neutrino Astronomy'.	Prof P R Vishvanath, TIFR, Mumbai	VITM	70
14	07-08- 2019	Physics through low cost experiments'	Prof D Indumati IMSc, Chennai	VITM	240
15	08-08- 2019	Physics through low cost experiments'	Prof D Indumati IMSc, Chennai	VITM	130
16	08-08- 2019	'What is the matter with Dark matter'	Prof B Dasgupta from TIFR, MUMBAI Mumbai	VITM	150
17.	08-08- 2019	Neutrinos and INO'.	Prof. G Rajasekaran from IMSc, Chennai	VITM	160
18	09-08- 2019	Neutrinos and INO'.	Prof. G Rajasekaran from IMSc, Chennai	VITM	40
19	09-08- 2019	'Particle Hunter's guide'	Prof N K Mondal SINP, Kolkata	VITM	50
20	09-08- 2019	Why Particle physics needs big experiments'	Prof. Rohini Godbole IISc , Bangalore	VITM	30
21	10-08-2019	Story of Neutrinos'	Prof N K Mondal SINP, Kolkata '	VITM	145
22	10-08-2019	'Societal spin –offs of	Dr. B. Sathyanarayana, TIFR, Mumbai	VITM	45

29	13-08-2019	'Gravitational Waves as	Shri Aditya Vijaykumar,	VITM	121
		a new tool for Cosmology'	ICTS, Bangalore		
24	13-08-2019	Black hole Master - LIGO in your hand & toy interferometer	Shri Aditya Vijaykumar, ICTS, Bangalore	VITM	149
25	14- 08- 2019	Black Holes & Gravitational Waves	Dr. Shasvath Kapadia, Research Associate & Postdoctoral Fellow, ICTS, Bangalore	VITM	180
26	15-08- 2019	'General Relativity and Beyond'	Shri Arpitm Ganguly, ICTS, Bangalore	VITM	150
27	16-08-2019	Gravity makes Waves	Shri. H R Madhusudan, Jawaharlal Nehru Planetarium, Bangalore	VITM	170
28	17-08- 2019	'Doubly Einstein! Gravitational Lensing of Gravitational Waves'	Prof. P Ajith, ICTS, Bangalore	VITM	180
29	17-08- 2019	Some interesting facts on Gravitational Waves'	Shri. Vishak Prasad, IUCAA, Jawaharlal Nehru Planetarium, Bangalore	VITM	160
30	20-08- 2019	'What is Plasma'?	Dr. A. V. Ravi Kumar, Scientific Officer & Head, Outreach Division, Institute for Plasma Research, Gandhi Nagar, Gujarat	VITM	230
31	21-08- 2019	'An insight in to Plasma'.	Dr. A. V. Ravi Kumar, Scientific Officer & Head, Outreach Division, Institute for Plasma Research, Gandhi Nagar, Gujarat	VITM	146
32	21-08- 2019	Applications of Plasma.	Ms. Chayya Chavda, Scientific Officer, Outreach Division, Institute for Plasma Research, Gandhi Nagar, Gujarat	VITM	130
33	22-08-2019	Applications of Plasma'.	Dr. P. N. Maya, Post Doctoral Fellow, Institute for Plasma Research, Gandhi Nagar, Gujarat	VITM	130
34	23-08- 2019	'ITER Projects, Over view & Challenges'.	Dr. Shishir Deshpande, Institute for Plasma Research, Gandhi Nagar, Gujarat	VITM	221
35	23-08- 2019	'Ensuing India's Deliverables to ITER – an Overview.	Dr. Mahendrajit Singh Institute for Plasma Research, Gandhi Nagar, Gujarat	VITM	104
36	27-08- 2019	RRCAT Large Hadron	Ms. S. Tiwari,	VITM	77

		Collider and India's Role in Its Making.			
37	27-08- 2019	•	Dr. Zubayer Ahmed, VECC	VITM	60
38	27-08- 2019	Searching for fundamental building blocks of the universe with the CMS experiment	Dr. Jyothsna Komaragiri, IISc , Bangalore	VITM	60
39	28-08- 2019	LHC and Beyond – India's Role in High Energy Accelerator development	Ms. S. Tiwari, RRCAT	VITM	170
40	28-08- 2019	Computing Paradigms for Mega Science	Dr. B. S. Jagadeesh, BARC , Mumbai	VITM	164
41	29-08- 2019	Large Hadron Collider at CERN – Indian Contributions Towards Discovery of Higgs Boson	Sh. S. N. Singh, RRCAT delivered	VITM	75
42	29-08- 2019	Unraveling the Higgs Boson at the Large Hadron Collider	Dr. Somnath Choudhury, IISc, Bangalore	VITM	50
43	29-08- 2019	Searching for Beauty: Finding one in a Billion with the CMS Experiment	Prof. James Libby, IIT Madras	VITM	50
44	30-08- 2019	Indian Participation in LHC for Discovery of Higgs Boson	Sh. Avinash Puntambekar, RRCAT	VITM	75
45	30-08- 2019	Superconducting Magnets for the LHC project at CERN - Indian Contribution	Sh. Avinash Puntambekar, RRCAT	VITM	50
46	30-08- 2019	Fundamental Research at CERN & much more'	Dr. Fabiola Gianotti, Director General, European Organisation for Nuclear Research (CERN)	VITM	225
47	31-08- 2019	Understanding Large Hadron Collider and High Energy Accelerators	Dr. Vikas Jain, RRCAT	VITM	50
48	31-08- 2019	An Odyssey through Our Universe - From the "Little Bang" to the "Big Bang"	Dr. Prabhat Pujari, IIT Madras delivered	VITM	50
49	03-09- 2019	'Physics of Neutron Star'.	Prof. Sanjay K. Ghosh, Bose Institute, Kolkata	VITM	108
50	03-09-2019	Evolution of Gaseous detectors for High Energy Physics Experiments.	Mr. Sayak Chatterjee, Bose Institute, Kolkata	VITM	120
51	05-09-2019	Exploring the Universe at FAIR	Prof. Rudrajyoti Palit TIFR, MUMBAI	VITM	30

52	05-09-2019	Detectors for Physics and Imaging: an Introduction	Dr. Saikat Biswas, Bose Institute,	VITM	30
53	06-09-2019	Physics with NUSTAR facilities at FAIR	Prof. Samit K. Mondal, Delhi University	VITM	72
54	07-09-2019	Synergy between Science and Technology	Dr. Supriya Das Bose Institute High Energy Physics, Kolkata	VITM	83
55	07-09-2019	Synergy between Science and Technology	Prof. Dinesh Kumar Srivastava, NIAS, Bengaluru	VITM	80
56	10-09-2019	Introduction to Radio Astronomy	Prof. Rajaram Nityananda, APU -	VITM	45
57	10-09-2019	Galaxies	Dr Mousumi Das, Indian Institute of Astrophysics, Bangalore	VITM	35
58	10-09-2019	Sensitive Antennas and RF	Dr A Raghunathan, Raman Research Institute, Bangalore	VITM	45
59	10-09-2019	Electronics For Radio Astronomy	Mr. R Somashekar Raman Research Institute, Bangalore	VITM	50
60	11-09-2019	Transients	Prof A. Deshpande, Raman Research Institute, Bangalore	VITM	40
61	11-09-2019	Big Ear: How to Listen with Many Antennas	Mr. V Mugundhan, Raman Research Institute, Bangalore	VITM	70
62	12-09-2019	Epoch of Reionization	Prof N Udayashankar, Raman Research Institute, Bangalore	VITM	32
63	12-09-2019	Introduction to Radio Astronomy	Prof N Udayashankar, Raman Research Institute, Bangalore	VITM	60
64	12-09-2019	Architectures For Radio Astronomy Digital Signal Processing	Mr. B S Girish, Raman Research Institute, Bangalore	VITM	40
65	13-09-2019	Magnetic Fields	Dr Sharanya Sur , Associate Professor, Indian Institute of Astrophysics (IIA), Bangalore	VITM	27
66	13-09-2019	Introduction to Radio Astronomy	Dr Nirupam Roy , Assistant Professor of the Department of Physics, India Institute of Science, Bangalore.	VITM	20
67	13-09-2019	State of the Art Digital Technology Transforming the Radio Astronomy Signal Processing	Ms. K S Srivani , Raman Research Institute, Bangalore	VITM	20
68	14-09-2019	The Sun	Prof R Ramesh, Indian Institute of Astrophysics	VITM	90
69	14-09-2019	Antenna Networks that Observe The Sun	Prof R Ramesh, Indian Institute of Astrophysics	VITM	80

70	17-09-2019	TMT Adaptive Optics system: How and Why?	Dr. Ravinder Banyal, Associate Professor, Indian Institute of Astrophysics (IIA), Bangalore,	VITM	20
71	17-09-2019	Stars as Time Machines : Creation of Chemical Elements in the Universe	Prof. Sivarani Thirupathi Indian Institute of Astrophysics	VITM	30
72	17-09-2019	"Galileo in Modern Times" - a Fun Optics Demo	Mr. Samir Dhurde IUCAA. Poone	VITM	20
73	18-09-2019	Evolution of Telescopes : From Galilean to TMT	Dr. Vineeth Valsan Post doctoral Fellow, Indian Institute of Astrophysics, Bangalore	VITM	50
74	18-09-2019	Exoplanets : Exploring New Worlds	Mr. Aritra Chakrabarty, Professor, Indian Institute of Astrophysics (IIA), Bangalore,	VITM	125
75	19-09-2019	Looking into the Universe with Giant Eyes	Mr. S. Sriram Junior Research Fellow, Indian Institute of Astrophysics, Bangalore	VITM	42
76	19-09-2019	Quasars as Probes of the Distant Universe	Prof. C. S. Stalin Professor, Indian Institute of Astrophysics, Bangalore	VITM	50
77	20-09-2019	Telescopes and High Resolution Spectrographs to Dissect the Stars	Prof. Gajendra Pandey Professor, Indian Institute of Astrophysics, Bangalore,	VITM	61
78	20-09-2019	Galaxies on Your Desktop - Data Science in the TMT Era	Dr. Sudhanshu Barway Scientist 'D' Indian Institute of Astrophysics, Bangalore	VITM	70
79	21-09-2019	Telescopes in India : Past, Present and Future	Prof. T. P. Prabhu, Professor, Indian Institute of Astrophysics (IIA), Bangalore,	VITM	74
80	21-09-2019	Black hole science and aspe cts where TMT can be a driv er		VITM	70
81	04-10-2019	'Moon to Mars exploration'	Dr. Ann Devereaux, Manager, Spacecraft System Engineering, Jet Propulsion Laboratory, NASA, USA	VITM	250
82	21-12-2019	Patterns in Music	Shri. Nilesh Trivedi, Engineer & Founder of "Learn Awesome"	VITM	110

83	22-12-2019	Let's make Math Human	Ms. Rakhi Chawla	VITM	160
	22 12 2013	again	Founder of ED3D, STEM Edupreneur, Global Math Project Ambassador, TEDx		
			Speaker, Lead Partner of India for various Olympiads.		
84	23-12-2019	Math's and Origami	Shri. VSS Sastry Serving bank officer with passion for Mathematics	VITM	140
85	24-12-2019	The thinking Mind – What's Math got to do with it	Ms. Meera Raghavan Maths Tutor & Coacher, HAL 2 nd Stage, Bangalore	VITM	135
86	25-12-2019	Algebra with cardboards	Prof. S. Sundar Raj Retd Professor, National College, Basavanagudi, Bangalore	VITM	107
87	26-12-2019	Math magic	Shri. Anmol Pathak Actuarial Scientist, Data Analyst, Bangalore	VITM	121
88	27-12-2019		Ms. Yamuna Natraj Global Math Project Ambassador, Math Educationalist, Runs the Math Workshop "Math Maya" in Bangalore.	VITM	105
89	28-12-2019	Magic and joy of exploding dots	Mr.Kiran Bacche Global Math Project Ambassador, Author of "The Magic and Joy of Exploding Dots" & "Mathematical Approach to Puzzle Solving", "Bangalore Math Circle"	VITM	60
90	29-12-2019	Ramanujan and large scale computing	Prof. Veni Madhavan Dept. of Computer Science and Automation Indian Institute of Science, Bangalore	VITM	60
91	28-02-2020	The Unreal world of Molecules and Materials'	Dr. Balasubramanian Sundaram, Professor, Centre for Physics & Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru	VITM	200
92	9-03-2020	Technology for Women's Safety	Ms. Isha, Pant, Deputy Commissioner of Police, Command Circle, Bangalore	VITM	110
93	9-03-2020	Women Safety'	Dr. Bindya Yohannan, Sr. Counsellor, Parihar, Office of the Commissioner of Police, Bangalore	VITM	110

RSC TIRUPATI

SI. No.	DATE	ТОРІС	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	11-05-2019	Fractals In Nature	Prof. P. Ambika, Dept. Of Physics, Indian Institute of Science Education & Research, Tirupati	RSC T	280
2	21-06-2019	Effect Of Yoga On Human Health	Swami Anupamananda, Secretary, Ramakrishna Mission Ashrama -Tirupati	RSC T 180 & NCC Camp 400	580
3	24-07-2019	Statistics In Day To Day Life	Prof. P. Raja Sekhara Reddy, Hon. President of Indian Society for Probability & Statistic(ISPS)	RSC T	235
4	24-07-2019	Brushing Teeth and How to Keep Oral Hygiene	Dr. Vaishnavi, Dentist Haripriya Dental Hospital, Tirupati	RSC T	230
5	22-07-2019	Life in Microgravity	Prof. B. J. Rao, Professor and Dean (faculty) Indian Institute for Science Education & Research (IISER) Tirupati	RSC T	290
6	07-12-2019	eBird Application in Monitoring Birds	Ms. Mittal Gala, Bird Count India	RSC T	210
7	07-12-2019	Taking Birds to the Children through Art	Ms. Niharika Rajput, Wildlife Artist	RSC T	210
8	26-12-2019	'Solar Eclipse: A Scientific Approach	Prof. C. Deshmukh, Dept. of Physics, IIT, Tirupati	RSC T	250
9	26-12-2019	Awareness and Safe Viewing of Solar Eclipse	Dr. Karthikeyan, Ophthalmologist (Retinal Specialist) of S. V. Aravind Eye Hospital, Tirupati	RSC T	150
10	26-01-2020	'Big Bang & LHC'	Dr. Abijith Gandrakota, Rutgers University, New Jersey, USA	RSC T	280
11	05-01-2020	Science Behind Hydroponics	Prof. G. Sudarsanam, HOD, Dept. of Botany, Sri Venkateswara University, Tirupati	RSC T	65
12	28-02-2020	Artificial Intelligence: Is / The Future	Shri. M Vidya Sagar IBM, Bangalore	RSCT	245
13	01-03-2020	Yoga & Innovation	Prof. Lakshmi Narayana, Asst. Professor, Dept. of Yoga, Rastriya Sanskrit Vidya peeta, Tirupati.	RSCT	275
14.	02-03-2020	Women In Innovation	Dr. P V Ranganayakulu, Former, Chief Museum Officer, SV Museums, TTD Tirupati	RSCT	150

RSC P CALICUT

SI. No.	DATE	ΤΟΡΙϹ	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	17-04-2019	Biodiversity around us	Dr.Jaffer Palot	RSC P	90
		-	Scientist	С	
			Zoological Survey of India		
2	17-04-2019	Climate Change & birds	Shri. Sathyan Meppayyur	RSC P	90
			Noted Environmentalist	С	
			Malabar Natural History		
3	18-04-2019	Floral diversity of Kerala	Dr. Kishore,	RSC P	110
			Associate Professor	С	
			Farook College Kozhikode		
4	04-05-2019	Evolution of Massive	Dr. Madhu K, Professor of	RSC P	105
		Stars'	Physics at UC college,	С	
			Aluva , Kerala.		
5	04-05-2019		Dr. Ananthakrishnan,	RSC P	95
1		Astrophysics of Black	International School of	С	
l		Holes'	Photonics, CUSAT		
6	22-05-2019	Collection, Preservation	Dr. P. M. Sureshan,	RSC P	50
		and Identification of	Scientist, Zoological	С	
		common insects	Survey of India		
7	21-06-2019	Yoga &Stress	Shri Unni Raman Director,	RSC P	85
		Managementat	Patanjali Yoga Research	С	
I			Centre, Calicut		
8	23-06-2019	Innovative treatment of	Dr.V.T.Ajithkumar Prof&	RSC P	105
		blood disorder patients"	Head, Department of	С	
			Paediatrics, Govt Medical		
			College,Kozhikkode		
9	23-06-2019	Growing problems of	Dr.B.Hitha.Asst.	RSC P	120
		adults blood disorder	Prof& Chief consultant in	С	
		patients"	Hematology Department,		
			Govt.MedicalCollege,		
			Calicut		
10	01-07-2019	Why transgender persons	SheethalShyam	RSC P	125
		need visibility	Transwoman Sahodari	С	
			Cultural Society		
11	05-07-2019	Snakes around us.	Shri.Gireesh,	RSC P	90
			Kerala Forest department.	С	
12	22-08-2019	Climate Change and flood	Dr.MadhavanKomath	RSC P	85
			Scientist, Centre for Water	С	
			Resources Development &		
			Management, Kozhikode		
13	06-09-2019	Chandrayaan 2	Dr.K.Jayaraman, Scientist	RSC P	150
			ISRO Bangalore	С	
14	03-10-2019	Conservation and	Dr.Gireeshkumar	RSC P	100
		Protection of animal life.	Scientist, ZSI Kozhikode	С	

15	03-10-2020	Invisible Mathematics	Prof Ambattvijayakumar CUSAT	RSC P C	100
16	04-10-2020	Making virtual class rooms using Desmos	Prof.Pravas.K KKTM Govt.College Pullut	RSC P C	90
17	12-10-2019	'Nuclear radiation for health care and clinical practices'	Dr.P.M.Maharajan,Nuclear Medicine Physician,Baby memorial Hospital Kozhikode	RSC P C	90
18	17-10-2019	Molecular and Genetic evidences authenticating human migration	Dr.K.P.Aravindan, Retd Professor, Dept. of Pathology, Govt.Medical College Kozhikode	RSC P C	150
19	17-11-2019	Prenatal diagnosis of Thalassemia and its Challenges.	Dr.NaliniMenon Govt.Medical College Kozhikode	RSC P C	75
20	18-11-2019	Gandhian concept of rural Development	Dr.Sebastian.N Dept.of Political Science University of Calicut	RSC P C	85
21	16-12-2019	Chemical is not at all bad word, We are all made of chemicals	Prof C.SureshPillai , Centre for Precision Engineering, Institute of Technology ,Sigo Ireland	RSC P C	140
22	16-12-2019	Reflections from a chemistry voyage	Dr.G.Unnikrishnan, Professor NIT Calicut	RSC P C	140
23	21-12-2019	Life &Works of SrinivasaRamanujan	Prof.P.T.Ramachandran Calicut University	RSC P C	50
24	24-12-2019	Harbinger of Life-Our star	Shri.K. Madan Gopal Director VITM Bangalore	RSC P C	105
25	24-12-2019	Astrophysics of Sun	Dr. Ram Ajor Mairya Asst. Professor NIT Calicut	RSC P C	100
26	24-12-2019	Solar Spectrum	Dr.MiniBalakrishnan Professor,Dept of Physics Gokulam College Balussery	RSC P C	95
27	24-12-2019	AdithyaLiI-Producing artificial solar eclipse 24x7and more	Dr.SreejithPadinhatteri SUIT Project Scientist IUCAA Pune	RSC P C	95
28	25-01-2020	Insights in Cosmology: The 2019 Nobel Prize in Physics	Dr. Jagadheep. D, Associate Professor, Department of Earth and Space Sciences, Indian Institute of Space Science and Technology Thiruvananthapuram (IIST)	RSC P C	170
29	10-02-2020	Curbing Corona Virus	Dr.A.S. Anoop Kumar, Consultant, Department of critical medicine, Baby	RSC P C	125

			Memorial Hospital, Kozhikode		
30	10-02-2020	Preventive measures against Covid 19	Dr.Asma, Professor, Department of Community Medicine, Government Medical College Hospital, Manjeri,	RSC P C	120
31	08-03-2020	The Unknown Universe: Fast Radio bursts	Dr. Resmi. L, Associate Professor, Indian Institute of Space Science and Technology Trivandrum	RSC P C	110

DSC GULBARGA

SI.No.	Date	Торіс	Name of the Speaker	Venue	Audience
1.	24-04-2019	scenario of Nuclear	Shri. S. K. Jena	DSC G	118
	24-04-2013	power plant in India	Manager (HR), Corporate		
			Communication Group,		
			Nuclear Power Corporation		
			of India Limited, Mumbai		
2.	29-05-2019	how can crystals be	Dr. C.V.Yelamaggad	DSC G	121
	29-05-2019	liquids	Scientist E, centre for nano		
			and soft matter sciences		
			Bangalore		
3.	10.00.0010	Beat Air Pollution	Dr. S R Mise	DSC G	450
	19-06-2019		Professor, Dept. of Civil		
			Engineering, PDA Engg.		
			College, Kalaburagi		
4.	11-07-2019	population explosion &	Dr. Channaveer R.M	DSC G	265
	11 07 2010	issues'	Head & Associate		
			Professor, Dept. of Social		
			Work, CUK, Kalaburagi	D 00.0	450
5.	28-08-2019	Applications of AI &	Er. Narayana Inamdar Rtd. scientist , NRSA	DSC G	156
		ways it can Transform Industries'	Hyderabad and		
		Industries	NASA,USA		
6.	07.00.0040	Importance of Pulses in	Dr. J.R.Patil	DSC G	760
-	27-09-2019	our daily food	Assote. Director of		
		-	research		
			Zonal ARS, Kalaburagi		
7.	11-10-2019	Gandhian Principle to	Dr. G.S.Gulshetty	DSC G	590
	11 10 2010	save earth	Professor, Gulbarga &		
			Board member of World		
		Life & Works of Sir C.V	leisure organisation Dr. M.S. Jogad	DSC G	135
8.	07-11-2019	Raman	Rtd Professor, Dept. of	DOCG	135
		Tramali	Physics, Kalaburagi		
9.		medicinal Plants at your	Dr. Nirmala Kelmani,	DSC G	155
0.	10-11-2019	backyard	Professor & HOD, Dept. of	2000	100
			Dravyaguna, S.H		
			Ayurvedic Medical college,		
			Kalaburagi		

10.	20-12-2019	Life & work of Srinivasa Ramanujan	Dr. G. Janardhan Reddy Assistant Professor & Coordinator, Dept. of Mathematics, School of Physical Sciences, CUK, Kalaburagi	DSC G	140
11.	21-01-2020	Space Technology	Shri Dil Sukh Jain Dy Director (Rtd), NRSA- ISRO, Hyderabad	DSC G	145
12.	23-02-2020	Artificial Intelligence for Engineering	Er. Narayana Inamdar Rtd Scientist, NRSA, ISRO Hyderabad& NASA, Maryland, USA	DSC G	68
13.	23-02-2020	Nuclear Energy scenario in India	Shri R. Satyanarayana, Outstanding Scientist Nuclear Power Corporation of India Ltd, Kaiga, Karwar Karnataka	DSC G	180
14.	25-02-2020	Careers in Basic Science	Dr. Ravindra S Hegadi Associate Professor, Dept. of Computer Science CUK, Kalaburagi	DSC G	138
15.	26-02-2019	Corona Virus	Dr. Ravi S. Kurle Asst. Professor, Dept. of Community Medicine, M.R. Medical College, Kalaburagi	DSCG	107

DSC, TIRUNELVELI

SL NO	DATE	TOPIC	NAME OF THE SPEAKER	VENUE	AUDIENCE
1	07-05-2019	Recent Advances in Zika	Dr Vaithi Arumugaswami,	DSC T	92
		Virus Disease	Ph.D., Asst. Professor of		
			Molecular Biology, University		
			of California, Los Angeles		
2	10-05-2019	Freedom Movements in	Dr Ramasubramnian, Prof.	DSC T	68
		India	& Head, Dept. of History,		
			Manonmaniam Sundaranar		
			University, Tirunelveli,		
3	05-06-2019	Air Pollution around Us &	Shri Mathivanan, Co-	DSC T	178
		Mitigation	ordinator, Ashoka Trust for		
			Research in Ecology and		
			Environment (ATREE)		
4	21-06-2019	Yoga for Peace and	Shri A Nagarajan, Yoga	DSC T	148
		Health	Professor, Nellai City		
			Manavalakali Maiyam		
5	16-07-2019	Snake Conservation &	Dr Vinoth, Research Guide,	DSC T	172
		Snake Bite Mitigation	Manimuthar Aghasthiyamalai		
			Community Centre, Tirunelveli		
6	22-07-2019	Recent Trends in	Dr Beschi Antony Rayan,	DSC T	59
		Genome Techniques	Professor & Head, Dept. of		
			Botany, St. Xavier's College,		
			Palayamkottai		

7	02-10-2019	Gandhiji's Vision	Dr P Valan Arasu, Head, Ulaga Thirukural Thagaval Maiyam, Tirunelveli	DSC T	118
8	12-11-2019	Preventive Methods of Diabetes	Dr Sayed, Retinopathy, Aravind Eye Hospital, Tirunelveli	DSC T	118
9	20-12-2019	Science and Technology for the Human Welfare'	Dr Sundara Avudaiappan, Programme Director, All India Radio, Tirunelveli	DSC T	157
10	07-02-2020	CoronaVirus	Dr S Sudhakar, Professor, Dept. of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli	DSC T	138
11	27-02-2020	Solar Energy	Dr Kalidasa Murugavel, Principal, National Engineering College, Kovilpatti	DSC T	169
12	28-02-2020	Plant Health	Dr S Sethuramamalingam, Former Director, RMNH, Bhopal	DSC T	194

Popular Science Lectures



Talk by Dr. Fabiola Gianotti, D.G., CERN on Fundamental Research at CERN organised at VITM



Talk by Dr. Ann Devereaux, Manager Spacecraft System Engineering, J.P.L., NASA on Moon to Mars exploration at VITM



Ms. Isha Pant DCP, Bangalore Speaking on Technology for Women's Safety at VITM



Talk by Shri M. Vidya Sagar, IBM, Bangalore on 'AI - the Future' at RSC T



Talk by Dr. D. Jagadheep, Associate Prof., Dept. of Earth and Space Sciences, IISER Thiruvananthapuram at RSC & P Calicut



Popular lecture on 'Life & Works of Sir C.V Raman' by Dr. M.S. Jogad, Rtd Professor, Dept. of Physics, Gulbarga at DSC G



Talk by Dr Vinoth, Research Guide, M A Community Centre, Tirunelveli on 'Snake Conservation & Snake Bite Mitigation' at DSC T



CREATIVE ABILITY CENTRE:

VITM, BANGALORE

LIST OF PROJECTS COMPLETED IN VACATION CAC:

CHEMISTRY:

SI.	Name of the Experiments	SI.	Name of the Experiments
No		No.	
1	Decantation	2	Evaporation
3	Filtration	4	Sublimation
5	Growing of Na ₂ S ₂ O ₃ Crystals	6	Growing of MgSo₄salt Crystals
7	Endothermic Reaction – KnO ₃	8	Endothermic Reaction – Freezing of
			water w/o ice
9	Exothermic reaction – Alkali in water	10	Preparation of Detergent Powder
11	Exothermic reaction – fire w/o match	12	Preparation & study of Oxygen gas
	sticks		
13	Preparation & study of Hydrogen Gas	14	Preparation & study of Chlorine Gas
15	Test for Presence of alkali	16	Synthesis of synthetic turmeric
17	Test for Presence of gases – Ammonia	18	Magic letters on paper
19	Test for Presence of Copper in Brass	20	Developing Silver mirror in a test tube
21	Filter Paper reaction	22	Chemical Sun rise & Sun set
23	Burn Paper w/o ash	24	Elephant Toothpaste
25	Test for presence of Acid	26	Physical Separation of Mixtures
27	Test for Presence of starch	28	Chemical Separation of Mixtures
29	Test for Presence of Glucose	30	Mercury Heart Beat
31	Test for Presence of gas – Co2	32	Silver Tree
33	Ferrous to ferric salt (Oxidation)	34	Lemon Battery
35	Change the colour by shaking (Oxidation)	36	Potato Battery
37	Magic Smoke	38	Sodium Chloride Cell
39	Effect of electric current in chemical	40	Magic tadpole
	Reactions		

ELECTRONICS ;

SI. No	Name of the Projects	SI.No	Name of the Projects
1.	Multitone Music	2.	Disco Light
3.	Resistance in Parallel	4.	Resistance in Series
5.	Property of capacitor	6.	Inductor Experiment
7.	Half Wave Rectifier	8.	Full wave Rectifier

MATHEMATICS:

SI. No	Name of the Projects	SI. No	Name of the Projects
1.	Platonic Solids	2.	Golden Ratio
3.	Fibonacci Gauge	4.	Algebraic Identities
5.	Pascal Triangle	6.	Mobius Band
7.	Area of a Circle	8.	Ramanujan Magic Square
9.	Mathematic Puzzeler	10.	Golden Rectangle
11.	Golden Triangle	12.	Prime Number
13.	Topology	14.	

PHYSICS:

SI. No	Name of the Projects	SI. No	Name of the Projects
1.	Static Electricity	2.	Bi metal Strip
3.	DC Motor	4.	Infinity Images
5.	Wind Mill	6.	Cartesian Diver
7.	Bird in Cage	8.	Electric Bell
9.	Sound Formation	10.	Oresteds Experiment

Robotics

SI. No	Name of the Projects	SI. No	Name of the Projects
1	Gyro Boy	2	Wall follower
3	Line Follower	4	Snake & Robo Arm
5	Proportional Line Follower	6	Colour Sorter

Art & Science

SI. No	Name of the Projects	SI. No	Name of the Projects
1	Bird	2	Kathakali Face
3	Dog	4	Pen stand (from News paper)
5	Flying Bird	6	Paper Craft - Dog
7	Thread Design	8	Paper Craft - Dinosaur

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LIST OF PROJECTS COMPLETED IN VACATION CAC:

SI. No	Name of the Projects	SI. No	Name of the Projects				
Phys	Physics						
1.	Simple Pendulum	5	Action & Reaction				
2.	Center of Gravity	6	Transfer of Momentum				
3.	Resonance	7	Bernoulli's Principal				
4.	Centrifugal Force	8.	Simple Mechanics				

Che	emistry		
1	Exothermic Reaction	5	Acid Base Titrations
2	Endothermic Reaction	6	Oxidation & Reduction Reaction
3	Sublimation Process	7	Diffusion
4	Crystallization	8	Catalytic Reactions
Bio	logy		
1	T. S of Dicot & Monocot Stem	5	Study if part of Flower
2	T. S of Dicot & Monocot Leaf	6	Extraction of DNA
3	T. S of Dicot & Monocot Root	7	DNA Model Making
4	Cell Division in Onion Root Tips	8	Extraction of Chloroplast
Garc	lening		
1	Introduction to gardening & its Tools	4	Soils layering in pot and Transfer of saplings
2	Composting of soil	5	Making of Moss Stick
3	Germination of Seeds Techniques	6	Introduction to Ornamental plants
Elec	tronics		
1	Introduction to Electronic Components	4	Switch Board Wiring
2	Variable Voltage Power Supply	5	LDR Circuit making
3	Parallel and Series Connections	6	Variable Resistance Board
Math	nematics	1	
1	Vedic Mathematics	5	Probability
2	Platonic Solids	6	Pizza Fraction
3	Measurements	7	Geometric Board
4	Odd and Even Error Check	8	Projections
Art 8	& Science	1	
1	3D Drawings Illusion Drawings	4	Spirography
2	Draped Cement Pot Making	5	Origami
3	String Art	6	Mixing of Colours
Astro	onomy		
1	Sun Dial	5	Eratosthenes Experiment
2	Sextant	6	Telescope Making
3	Ball & Mirror Projection	7	100 years Calendar
4	Scale Down of Solar System		
Robe	otics		
1	Assembling of Robot with Components	5	Construction of Puppy Bots
2	Introduction to Sensors	6	Construction of Spirography Bots
3	Introduction to Software	7	Construction of Bowling Bots
4	Construction of Line Following Robot		

RSCT – LIST OF PROJECTS COMPLETED IN MUSEUM CAC

SI. No.	Name of the Project	SI. No.	Name of the Project
1	Hydroponics	2	

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SI. No	Name of the Projects	SI. No	Name of the Projects
1	Thermal expansion	25	Exothermic reaction
2	Osmosis	26	Preparation of cl gas
3	Oxidation reduction reaction	27	Gravity
4	Newton's pendulum	28	Nail chair
5	Day and Night	29	Electromagnetic induction
6	Logic gate	30	AC Dynamo
7	Mutual induction	31	Electric bell
8	Fire alarm	32	Transformer
9	Gear train	33	Magic square
10	Surface tension	34	Soap making
11	Foam fire extinguisher	35	Magic lamp
12	Solubility	36	Colour memory
13	Reflex action	37	Isomerism
14	Water analysis	38	Chromotography
15	How do we hear	39	Solar system
16	Star chart	40	Satellite communication
17	Acid base indicators	41	Estimation of NaoH
18	Celestial sphere	42	Radio telescopes
19	Preparation of sanitiser	43	Tyndal effect
20	Rectifier	44	Sun dial
21	Magnetic lines of force	45	Eddy current
22	Holography	46	Persistence of vision
23	Rain water harvesting	47	Vermi composting
24	Temperature of stars	48	

DSC, GULBARGA CHEMISTRY:

SI. No.	Name of the Project	SI. No.	Name of the Project
1	Identification of Acids & Bases by Litmus	16	Combustion of Phosphorous
2	Identification of Acids & Bases by PH paper	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	Formation of Ammonium Chloride	21	Cut without blood
7	Chemical combination	22	Chemical Volcano
8	Chemical decomposition	23	Sun rise & sun set experiment
9	Chemical displacement	24	Acid-base titration
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 HCI on metals	29	Reduction reaction
15	Action of HNO ₃ on metals	30	Electric writing
L		1	<u> </u>

PHYSICS :

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

ELECTRONICS:

SI. No	Name of the Project	SI. No.	Name of the Project
1	Resistors in Series on bread board	7	Transistor as amplifier on bread board
2	Resistors in Parallel on bread board	8	Transistor as oscillator on bread board
3	Capacitors in Series on bread board	9	LED blinker on bread board
4	Capacitors in Parallel on bread board	10	Musical doorbell Using UM66
5	Diode as forward bias on bread board	11	Mini Tesla coil
6	Diode as reverse bias on bread board	12	Transistor as amplifier on bread board

LIST OF PROJECTS COMPLETED IN MUSEUM CAC:

CHEMISTRY:

SI No	Name of Project
1	Electrolytic decomposition
2	Magic candle experiment
3	Traffic light experiment
4	Oxidation reaction
5	Reduction reaction
6	Electric writing
7	Chemical decomposition

8	Chemical displacement
9	Double displacement
10	Exothermic Reaction
11	Electrolytic decomposition
12	Magic candle experiment
13	Traffic light experiment
14	Oxidation reaction
15	Reduction reaction

Physics:

SI. No.	Name of the Project	SI. No.	Name of the Project
1	Simple Electric Bell	3	Electromagnet
2	Electromagnet	4	Bird in a cage

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ASTRONOMY:

SI.N	Name of the Projects	SI.No	Name of the Projects
0			
1.	Star Chart	2.	Sun Dial
3.	Ball Mirror	5	Theodolite
4.	Satellite Model		

ELECTRONICS:

SI. No	Name of the Projects	SI. No	Name of the Projects
1.	Music Organ	2.	LDR Street Light
3.	IR-based Circuit	4.	Sound-based Circuit

SCIENCE TOY MAKING:

SI. No	Name of the Projects	SI. No	Name of the Projects
1.	Floating Magnet	2.	Origami
3.	Paper Bag	4.	Optical Illusion
5.	Coconut Shell Art	6.	Cube Flexagon
7.	Colour Shadow	8.	Mathematical Shapes with
			Toothpicks

<u>ANNEXURE – 5</u>

COMMEMORATIVE PROGRAMMES:

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

VITM, BANGALORE

SI No	Name of the Programmes	Date
1	NCSM Foundation Day	10-04-2019
2	Centenary of the Jallianwala Bagh Massacre	3-04 to 12-05 2019
3	National Technology Day	11-05-2019
4	International Museum Day	18-05-2019
5	World Environment Day	05-06-2019
6	International Yoga Day	21-06-2019
7	54 th Anniversary of the Museum	23 to 27-07-2019
8	158 th Birth Anniversary of Sir M Visvesvaraya	15-10-2019
9	International Science Centre & Science Museum Day	10-11-2019
10	National Mathematics Day (Birth Anniversary of Srinivasa Ramanujan)	21 to 29-12-2019
11	Constitution Day	13-02- 2020
12	National Science Week	22 to 28 -02-2020
13	International Women's Day	09-03-2020

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SI No	Name of the Programmes	Date
1	NCSM Foundation Day	10-04-2019
2	Earth Day	22-04-2019
3	National Technology Day	11-05-2019
4	International Museum Day	18-05-2019
5	World Environment Day	01to 05-06-2019
6	International Yoga Day	21-06-2019
7	Moon Landing Week	16 to 22-07-2019
8	Independence Day	15-08-2019
9	World Ozone Day	16-08-2019
10	150 th Birth Anniversary of Mahatma Gandhi	02 to 16-10-2019
11	World First Aid Day	14-09-2019

12	Birth Anniversary of APJ Abdul Kalam	15-10-2019
13	Rashtriya Ekta Diwas	31-10-2019
14	International Science Centre & Science Museum Day	10-11-2019
15	National Mathematics Day	22-12-2019
16	Republic Day	26-01-2020
17	Constitution Day	26-01-2020
18	National Science Week	22 to 28-02-2020
19	International Women's Day	09-03-2020

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SI No	Name of the Programmes	Date
1	International Museum Day	18-05-2019
2	World Environment Day	05-06-2019
3	Moon landing week	21-07-2019
4	Hiroshima Day	06-08-2019
5	Wild life week	03-10-2019
6	World Space Week	04 -10-2019
7	National Thalassemia Day	17-11-2019
8	National mathematics Day	22-12-2019
9	Anniversary Day	30-01-2020
10	National Science Day	28-02-2020
11	International Women's Day	08-03-2020

DSC, GULBARGA

SI. No.	Name of the Programme	Date
1	Swachhta action	16 to 30-04-2019
2	Centenary Jallianwala Bagh Massacre	21-04 to 12-05- 2019
3	National Technology Day	11-05-2019
4	International Museum Day	18-05-2019
5	World Environment Day	05-06-2019
6	International Yoga Day	21-06-2019
7	World Population day	11-07-2019
8	Moon landing day	22-07-2019
9	Hiroshima Day	05-08-2019
10	Engineers' Day	15-09-2019
11	Swachhta Pakhwada	16 to 30-09-2019

12	Hindi Pakhwada	16 to 30-09-2019
13	150 th Birth anniversary of Mahatma Gandhi Swachhta hi Seva	1 to11-10-2019
14	Vigilance Awareness Week	28-10 to 2-11-2019
15	Rashtriya Ekta Diwas	31-10-2019
16	Birth anniversary of Sir C V Raman & Madam Curie	07-11-2019
17	International Science Centre & Science Museum day	10-11-2019
18	Birth anniversary of J C Bose	30-11-2019
19	Ramanujan's Birth anniversary	22-12-2019
20	36 th Anniversary of DSC Kalaburagi	06-01-2020
21	National Science Day	28-02-2020

DSC, TIRUNELVELI

SI No	Name of the Programmes	Date
1.	NCSM Foundation Day	04-04-2019
2.	World Earth Day	22-04-2019
3.	Swachhta Pakhwada	16 to 30-04-2019
4.	Jallianwala Bagh Massacre Centenary	06 to17-05-2019
5.	National Technology Day	11-05-2019
6.	International Museum Day	18-05-2019
7.	World Environment Day	05-06-2019
8.	World Blood Donor's Day	14-06-2019
9.	International Day of Yoga	21-06-2019
10.	World Population Day	03-07-2019
11.	World Snake Day	16-07-2019
12.	Birth Anniversary of Gregor J Mendal	22-07-2019
13.	World Photography Day	16-08-2019
14.	Teachers Day	07-09-2019
15.	Gandhi 150	02-10-2019
16.	World Space Week	05-10-2019
17.	Vigilance Awareness Week	28-10 to 02-11-2019
18.	National Unity Day	31-10-2019
19.	International Science Centre & Science Museum Day	10-11-2019
20.	Nobel Prize Winners	20-12-019
21.	3 rd National Siddha Day	12 to 16-01-2020
22.	DSCT Anniversary Week	23 to 27-02-2020
23.	National Science Day	28-02-2020
24.	International Women's Day	08-03-2020

Commemorative Programmes



Drawing Contest at VITM during 150th Birth Anniversary of Mahatma Gandhi





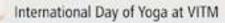
Science Show at VITM



International Womens Day at VITM



Live demonstration of defence techniques for women during International Womens Day at VITM











Science Quiz during 54th Anniversary of VITM

Commemorative Programmes

National Science Week Science Model Making Contest at RSC T





REPORT



International Bio Diversity Day Vermicompost Demonstration at RSC & P C

Moon Landing Week Water Rocket launching Contest at RSC T





Science Centre & Science Muse at DSC G







Drawing Contest at DSC T



World Environment Day Cycle Rally at DSC T



World Earth Day Leaf Zoo Contest 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

SI No	Name of the Programmes	Collaborator
1	App Development Course on Android	IEEE, Bangalore Chapter
2	International Day of Yoga YOGA SANDESHA – an exhibition on Yoga, Mind & Body'	Developed in collaboration with Integrated Centre for Yoga, NIMHANS Bangalore)
3	'Vigyan Samagam – Pushing The Frontiers of Science'	Dept. of Atomic Energy, Govt. of India and Dept. of Science & Technology, Govt. of India.
4	Teachers' Training Programme	Australian Consulate, Chennai
5	Pondicherry State level Science Seminar	Directorate of School Education, Puducherry
6	Andhra Pradesh State level Science Seminar	SCERT, Amaravathi, Govt. of Andhra Pradesh.
7	Telengana State level Science Seminar	SCERT, Govt. of Telengana
8	Kerala State level Science Seminar	Directorate of General Education Govt. of Kerala
9	Lakshadweep UT level Science Seminar	Directorate of Education Lakshadweep Administration
10	Tamil Nadu State level Science Seminar	Directorate of School Education Govt. of Tamil Nadu.
11	Karnataka State level Science Seminar	Urdu & Minority Language Schools, Office of the Commissioner of Public Instruction, Govt. of Karnataka
14	Southern India Science Drama Festival (SISDF-2019)	Education Departments of Southern Indian States
15	Science Film Festival	Goethe Institute (Max Mueller Bhavan)
16	33 rd Southern India Science Fair	Education Departments of Southern India States
17	International Women's Day	IEEE Women in Engineering Bangalore Section

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SI No	Name of the Programmes	Collaborator
1		SVIMS Hospital, and SVRRR
I	Polio Vaccination programmes	Hospital Tirupati
2	World Earth Day	A.P. Pollution Control Board, Tirupati
3	World Environment Day	A.P. Pollution Control Board, Tirupati
4	Moon Landing Week	National Atmospheric Research Laboratory, Gadanki
5	District Level Science Seminars	District Educational Officer, Chittoor, Andhra Pradesh.
6	District Level Science Drama	District Educational Officer, Chittoor, Andhra Pradesh.
7	State Level Science Drama	AP SCERT, Andhra Pradesh
8	Hydroponics Workshop	SV University, Dept. of Botany
9	World Ozone Day	A.P. Pollution Control Board,
9	World Ozorie Day	Regional Office, Tirupati
10	Tirupati Bird Festival	Indian Institute of Science Education
10		and Research, Tirupati
11	Kalautsav	Dept. of School Education and Samagra Siksha, Govt. of Andhra Pradesh
12	World First Aid Day	St. John Ambulance Association & Indian Red Cross Society, Chittoor
13	Science Film Festival	Goethe – Institute / Max Mueller Bhavan
		Indian Institute of Science Education
14	Nature Study Camp	and Research, Tirupati
15	Robotics Workshop and Contest	AP Council of Science & Technology
16	Free Dental Camp	Haripriya Dental Hospital, Tirupati

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SI No	Name of the Programmes	Collaborator
1	Defence Quiz	Ex-Airmen Group for Social
		Excellence (EAGLE)
2	Nature workshop	Malabar Natural History Society
3	Symposium on 'first imaging of Black hole'	Indian Association of Physics
	Symposium on hist imaging of black hole	Teachers (IAPT) Kerala
	International Biodiversity day	Zoological Survey of India
4		-
5	World Sickle Cell Day	Blood Patient Protection Council Kerala
6	A Day with Snake workshop	Zoological Survey of India
7	Swachhtha Hi Sewa Campaign	Directorate of Arecanut & Spices
		Development,
8	Science Film festival	GEOTHE INSTITUT Delhi
9	Celebration of International year of Periodic table	Chemistry teachers forum

10	Conference on Sun and Eclipse	VigyanPrasar New Delhi
11	Workshop on Annular Eclipse	Breakthrough Science Society
12	Earth Day	Oisca International Kozhikode
13	Children's Day	Childline
14	National Technology Day	IEEE Calicut Chapter

DSC, GULBARGA

SI. No.	Name of the Programme	Collaborator
1	World Environment Day	Karnataka Pollution State Control Board, Regional Office, Kalaburagi
2	Community training Programme	Shri Shakti Mahila Abhuvruddhi Samsthe
3	India march for Science	Break though Science society
4	District level Science Seminar	DIET Kamalapur
5	District level Science Drama	DIET Kamalapur
6	District level Rural IT Quiz	Office of the DDPI, Kalaburagi
7	District level Science Fair	DIET Kamalapur
8	Workshop on Al	Karnataka State Science & Technology, Regional Centre, Kalaburagi
9	A workshop on Information and communication technology – Gate way to Artificial intelligence	Silicon technologies, Kalaburagi
10	Science Film festival	Goethe Institute, Germany / Max Muller Bhavan New Delhi

DSC, TIRUNELVELI

SI No	Name of the Programme	Collaborator
1	World Earth Day	Dept. of forest, Govt. Of Tamil Nadu & ATREE trust
2	Reframing Your Daily Habits	Max Jones Charitable Trust, Tirunelveli
3	Art & 3D Painting Exhibition	Nellai Drawing Teachers' Association
4	World Environment Day	ATREE Trust & National Green Corps, Tirunelveli
5	Bi-Cycle Rally	Dept. of Forest, Govt. of Tamil Nadu & ATREE Trust
6	World Blood Donors Day	Nellai Maavatta Maanagara Rajini Makkal Mandram
7	Swachh Bharath Awareness Programme	National Green Corps, Tirunelveli
8	World Population Day	Dept. of Family Welfare & Dept. of School Education, Tirunelveli
9	World Snake Day	ATREE Trust & Madras Crocodile

		Bank Trust, Chennai
10	Wetland Rovers of Thamirabarani	ATREE Trust
11	World Photography Day	VGPG Creations & Nellai Video and Photographers Association
12	Computer Training Programme	Microlux Pvt. Ltd., Chennai
13	Soft Skill and Motivation Training Programme	Microlux Pvt. Ltd., Chennai
14	100 Birth Anniversary of Dr Vikram Sarabhai	IPRC, ISRO, Mahendragiri
15	National Children Science Congress	Tamil Nadu Science Forum, Tirunelveli
16	Teachers Day	Tamil Nadu Science Forum, Tirunelveli
17	District Science Seminar	Dept. of School Education, Tirunelveli
18	Art Exhibition – Gandhi 150	Sivaram Kalaikoodam, Tirunelveli
19	World Space Week	IPRC, ISRO, Mahendragiri
20	4 th Eco Conservator Award	ATREE Trust & Bell Pins Pvt. Ltd.,
21	District Science Drama	Dept. of School Education, Tirunelveli
22	Nilgiri Tahr - Workshop	WWF Sothern Region & Arumbugal Trust, Tirunelveli
23	World Diabetes Day	Aravind Eye Hospital, Tirunelveli
24	Wild Life Family Quiz	ATREE Trust
25	Science Film Festival	Goethe Institute
26	Thulir Science Quiz	Tamil Nadu Science Forum, Tirunelveli
27	Specific Concept Oriented programme (SCOPE)	Sarva Shiksha Abhiyan (SSA), Tirunelveli
28	Salam to Kalam – Science Fair	Ion Tach Academy, Tirunelveli
29	Heritage Monuments in Nellai – Seminar	History & Cultural Field Research, Tirunelveli
30	3 rd Siddha Day	Office of the District Siddha Medical Officer, Tirunelveli
31	Thaedal – Seminar	WIZIFI Robotics, Tirunelveli
32	Thamirabarani Wetland Birds – Exhibition	Dept. of Forest, Govt. of Tamil Nadu & ATREE Trust
33	Kavalan App – Short Movie Release	Nallathai Pakirvathu Nam Kadamai Team, Tirunelveli
34	Youth Convention Programme	Nehru Yuva Kendra, Tirunelveli
35	Swachh Bharath Programme	Sankar Polytechnic, Tirunelveli

Collaborative Programmes



Southern India Science Fair organized by VITM



NCSM Pavilion during 107th Indian Science Congress at GKVK campus Bengaluru





Inauguration of Science Film Festival at VITM



Science Film Festival activity at RSC T



District level Science Drama Contest at DSC G



'A day with snake' programme at RSC & P C



Science Film Festival workshop at DSC T

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3.	Executive Secretary, Karnataka State Council for Science & Technology Indian Institute of Science C.V Raman Road, Bangalore – 560 012	Member
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8.	Director (Museums),, MoC Member Ministry of Culture, Govt. of India Shastri Bhavan, New Delhi – 110 115	Member

9.	Shri A.D. Choudhury Director General, National Council of Science Museums, Sector –V, Bidhan Nagar, Kolkata – 700 091	Member
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12.	Shri K Sajoo Bhaskaran Curator 'E', Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore – 560 001	Member
13.	Shri M.M.E. Namboodiri Controller of Administration Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore – 560 001	Non Member Secretary

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9.	Director General or his Nominee National Council of Science Museums Sector V, Block – GN, Bidhan Nagar Kolkata- 700091	Member
10.	Shri K. Madan Gopal Director Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore – 560 001	Member
11.	Shri K. Sajoo Bhaskaran Curator 'F' Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore – 560 001	Member
12.	Smt. K. A. Sadhana Curator 'G' Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore – 560 001	Member Secretary

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11.	Shri K. Madan Gopal		Member
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ACTIVITY REPORT OF V I T M & ITS SATELLITE UNITS 2019-20

Director, Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore

12. Shri C.N. Laxminarayana District Science Officer District Science Centre Municipal Garden, Kalaburagi

Member Secretary

LOCAL ADVISORY COMMITTEE

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VISVESVAR

(National Council of Science Museums) Ministry of Culture, Government of India Kasturba Road, Bangalore - 560 001 RSC, Tirupati RSC & P, Calicut DSC, Kalaburagi DSC, Tirunelveli