**GUJARAT COUNCIL OF SCIENCE CITY**

**DEPT OF SCIENCE & TECHNOLOGY, GOVT OF GUJARAT**

**SUMMER SCIENCE OUTREACH CAMP - 2022**

**[5th May to 5th June 2022]**

**1. Hands-on workshop on STEM:**

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| **Sl. No.** | **Date** | **Time** | **Programme Title** | **Activities** | **Venue** | **Resource Person** | **Age group** | **No. of seats** |
| 1 | 5th – 7th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Workshop on Robotics  Champion Module  (Embedded System) | Introduction to Robotics, Mechanical & Electronics parts, breadboard & circuit design, study of motor & sensor, basic programming, testing | Nobel Dome | DA-IICT/ PDPU/ Govt. Polytechnic/IIT Gandhinagar | 13 – 16 yrs | 25 |
| 2 | 9th – 11th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Plant Tissue Culture | Different stages of Plant Tissue culture techniques viz. Media preparation, Inoculation of explant, observation of results will be demonstrated | LSP | Dr. Yogesh T. Jasrai  Botany, Professor  Guj. Uni | 13 – 16 yrs | 25 |
| 3 | 9th – 11th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Workshop on Photography & Videography | Hands-on demonstrations with the camera, basic digital image editing techniques, working principles of camera | Audi II | Dr. Vrajesh Parikh & Mr. Pulkesh Prajapati  GCSC | 13 – 16 yrs | 25 |
| 4 | 12th – 14th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Electronics Circuit Design  **Filed Visit:**  **Electronic Industry** | Study of basic component i.e. Capacitor, Register, Diode, Transistor, IC etc.  Parallel & Series Connection, Open & Close Circuit, DC light circuit, Rain & Temperature Alarm, Touch Sensor, LED Circuit | Nobel Dome / Audi II | Dr. Darshan Vyas  HOD, HNGU, Patan | 13-16 yrs | 25 |
| 5 | 12th – 14th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Workshop on Science Journalism  **Filed Visit:**  **Top Newspaper Company** | How to write science blogs, article, research papers etc. in magazine, newspaper, research journal and any other sources of science communication. | Audi I | Dr. Darshan Trivedi  HOD & Professor  MICA  Ahmedabad | 16-18 + yrs | 25 |
| 6 | 16th – 18th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Internet of Things (IoT) Technology on Home Automation | Introduction to IoT  Introduction to Arduino,  Demo on different Home automation projects | Nobel Dome | Prof from DDU  LD Engineering / Mr. Urvish Soni,  Govt. Polytechnic | 13 – 16 yrs | 25 |
| 7 | 16th – 18th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Workshop on  West to Best | Making of science models (working / static) from the west of paper, plastic, meta etc.l | Audi II | Dr. Vrajesh Parikh  General Manager  Science popularization  GCSC | 13-16 yrs | 25 |
| 8 | 19th – 21st May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Telescope Making | Introduction of telescope, identification and study of various parts, assembling, testing etc. | Audi I | Dr. Abhay Kothari  Manthan Education | 14+ yrs | 25 |
| 9 | 23rd – 25th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Demonstration on Chemistry  **Filed Visit:**  **Pharmaceutical Industry** | Fun with Chemistry  Wonders of Chemistry  Consumer Chemistry  Chemical Reaction | Aud II | Dr. Ghanshyam Mehta, CSC, Surendranagar | 12 – 16 yrs | 25 |
| 10 | 26th – 28th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Life Cycle of Butterfly | Identification of Butterfly, Understanding of different stages of Butterfly | LSP | Shri Shivam Bhatt  Biodiversity Consultant | 8 – 12 yrs | 25 |
| 11 | 26th – 28th May 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Workshop on Computer Game making tools (Code and Design Games with Scratch) | Students explore programming concepts through the development of animations and games | Audi I | Nirma University / DA-IICT | 13 - 15 yrs | 25 |
| 12 | 30th – 31st May 2022  4 hrs per day x 2 day | 11.00 to 16.00 hrs | Learning of Mathematics | Matlab, 3D Modeling, School Geometry | Aud I | Mr. Mumukshu Harshid, PDPU, G’nagar | 13 - 15 yrs | 25 |
| 13 | 1st – 3rd June 2022  4 hrs per day x 3 day | 11.00 to 16.00 hrs | Explore the Botany  **Field Visit & Nature Trail:**  **Visit to Narmada / Polo Forest** | Identification of flora and fauna | Nature Park | Dr. Manisha Desai, HOD, Bhavans College | 11 - 13 yrs | 25 |
| 14 | 4th – 5th June 2022  4 hrs per day x 2 day | 11.00 to 16.00 hrs | Fun with Physics | Basic science demonstrations on pressure, force, optics, magnet and basic principles of science | Audi II/ Nobel Dome | Dr. Ashish Patel  KSV  Gandhinagar | 13 - 15 yrs | 25 |

**2. Celebration of Science:**

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| **Sl. No.** | **Programme Title** | **Activities** | **Date & Time** | **Age group** |
| 1 | National Technology Day | Debate and essay writing  Public lecture on S&T | 11th May 2022 | Open to all |
| 2 | International Day of Light | Interactive Session, Hands-on activities | 16th May 2022 | Open to all |
| 3 | World Telecommunication Day | Activities & Competition | 17th May 2022 | Open to all |
| 4 | International Day for Biological Diversity | Interactive Session, Painting, Elocution and Quiz, Puzzle competition, Demo & Lecture | 22nd May 2022 | Open to all |
| 5 | Gujarat Science City Foundation Day | Debate and essay writing, Public Interaction | 30th May 2022 | Open to all |
| 6 | World Environment Day | Painting, elocution and quiz, puzzle, Demo & Lecture | 5th June 2022 | Open to all |

**3. Science Matters: Popular Science Lecture Series:**

* Last week of every month : 3.00 to 5.00 pm : Auditorium I : Open to All

**4. Science for All:**

* Science Film on LED Screen : 5.00 to 7.00 pm : LED Screen : Everyday :Open to All
* Night Sky Observation : 7.30 to 8.30 pm : Amphitheatre : Everyday :Open to All