

## National Science Day– 2022 Celebrated by GSCST

**National Science Day** is known for Sir Chandrasekhara Venkata Raman, Indian Physicist and Nobel Laureate in Physics recognized for his work on the molecular scattering of light and for the discovery of the Raman Effect, which is named after him. 28<sup>th</sup> Feb. is celebrated as National Science Day in India in commemoration of the discovery of Raman Effect which won him and to the country the first Nobel Prize in 1930 in Physics for his work on the scattering of light and the said discovery Government of India started observing this day with an aim to create positive attitude towards science for the betterment of the people. He has invented many of the Technologies and Techniques to handle and tackle every task comfortably and accurately for **“work on the scattering of light and the said discovery is named after him.”**

### *Objectives-*

- 1) To create awareness and develop love and compassion for Science.
- 2) To enhance creativity of students.
- 3) To develop curiosity for various natural phenomenon taking place and to satisfy the same through hands on activities.
- 4) To promote development of Science talents through quizzes, competitions and screening of audio-visual programmes.

The Goa State Council for Science and Technology (GSCST) celebrated (observed) Science Day on 28/02/2022 in the premises of GSCST. GSCST was celebrating this day every year in the grand way by large gathering of school students and teachers and general public at large. This year 2022 and previous year 2021 due to Covid-19 pandemic situation in our Goa state it could not possible to organize this day by large gathering. Most of the programmes were organized by online mode. Considering the importance of the day the GSCST celebrated/observed this day in GSCST office with the officials of GSCST and Goa State Bio diversity Board on 28/02/2022. At the beginning the Project Investigator Shri. Sanjeev Chodankar welcomed the gathering and briefed out the importance of the day and highlighted the contribution of great Scientist Sir C.V. Raman. To give respect and tribute to a great Scientist Sir C.V. Raman the programme begins with by offering garlands to his photos at the hands of GSCST Member Secretary Prof. Pradeep Morajkar and Dr. Pradeep Sarmokadam, Member Secretary, Goa State Bio-diversity Board and other participants offered a flowers.

On this occasion online State Level Poster and Quiz competitions were organized to various institution of Goa State. 46 Schools have been participated for the both competition on

the related theme of the NSD “**Integrated Approach in Science & Technology for Sustainable Future**”.The Schools have been requested to draw the poster and submit to GSCST office. Quiz competition organized by online mode and shortlisted best 7 winners for on stage oral quiz held in the valedictory function on 16/03/2022 and selected best 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4 consolation prizes. The oral onstage quiz competition conducted by Shri.Nagush Sardessai, Sr. Teacher of People’s Hr. Sec. School, Mala, Panaji, Goa.The poster competition judged by Shri Kalidas Satardekar, Drawing Teacher of Govt. High School, Sadar, Ponda.

The Valedictory function was held 16<sup>th</sup> March 2022 at the Goa Chambers of Commerce & Industries, Panaji, Goa.The entire prize winner along with Guide teachers and parents attended the function.The programme comprises of Lecture, Onstage oral Quiz Competition followed with valedictory function. At the beginning, Shri Sanjeev Chodankar, Project Investigator welcomed the gathering and the Resource person Dr. Sachin Tendulkar,Chief Executive Officer, Mineral Foundation of Goa, Panaji, Goa delivered the lecture on the NSD theme “**Integrated Approach in Science & Technology for Sustainable Future**”.Onstage Quiz competition conducted by Shri. Nagush Sardessai. Sr. Teacher of People’s Hr. Sec. School, Mala, Panaji.

The below mentioned schools were participated for NSD 2022.

Sr. No.	Name of the participants		Name of the School
1.	Teacher	Mrs. Sneha Govekar	Poirra High School, Poirra, P.O. Assnora, Poirra, Bardez, Goa.
	Student	Mast. Shashank Gawander	
	Student	Mast. Tejas S. Mayekar	
2.	Teacher	Daphne Maria Rodrigues	St. Lawrence High School, Agassaim, Tiswadi, Goa.
	Student	Mast. Sachin Sharma	
	Student	Miss. Seema Deginal	
3.	Teacher	Mrs. Arti V. Gurav	Our Lady of Remedies High School, Nerul, Bardez, Goa,
	Student	Mast. Parshuram Talwar	
	Student	Miss. Defny Pereira	
4.	Teacher	Mr. Samir P. Naik	Mahila & Nutan English High School, Comba, Margao, Salcete, Goa.
	Student	Mast. Nipun G. Joshi	
	Student	Mast Paras P. Desai	
5.	Teacher	Mrs. Alisha Samreen Shaikh	Anjuman Hiayatul Islam High School, Baina, Vasco, Goa
	Student	Mast. Aladgiri Muzammil	
	Student	Miss. Yadav Pratiksha	
6.	Teacher	Mrs. Charlotte Emeka Goes	St. Mary’s High School, Varca, Salcete
	Student	Mast. Rishbh Kumar	
	Student	Mast. Prathamesh P. Shenoy	
7.	Teacher	Mrs. Sumant S. Bandekar	Govt. High School, Morpirla, Quepem, Goa.
	Student	Miss. Saesha P. Velip	
	Student	Mast. Prajay S. Velip	

8.	Teacher	Mrs. Reshmi Manerkar	G.S. Amonkar Vidyamandir, Dattawadi, Mapusa, Goa.
	Student	Miss. Avani Hegde	
	Student	Miss. Maithili Gauns	
9.	Teacher	Mrs. Beena Walavalkar	Our Lady of Grace High School, Bicholim
	Student	Mast. Arnav Arun Singh	
	Student	Miss. Arya Tirodkar	
10.	Teacher	Sandhya P. Pai	Mushtifund High School, Cujira, St. Cruz, Tiswadi, Goa.
	Student	Miss. Chaitanya Rane	
	Student	Miss. Priyamedh Sahasrabudde	
11.	Teacher	Mr. Pandurang Toraskar	Mandre High School, Mandre, Pernem, Goa.
	Student	Miss. Sanjana Naru Naik	
	Student	Noopur Pradeep Pokhare	
12.	Teacher	Rima R. Sawal	Vidhya Vihar High School, Thana, Cortalim
	Student	R. Sahana	
	Student	Mast. Vedant Bhabde	
13.	Teacher	Mast. Aniket Morajkar	Azmane High School, Neura, Tiswadi, Goa
	Student	Vedika M. Gawade	
	Student	Shashthi M. Govekar	
14.	Teacher	Mrs. Manjiri S. Shetgaonkar	Vidyaprasarak High School, Morjim, Pernem, Goa.
	Student	Miss. Krutika S. Pednekar	
	Student	Miss. Vinaya P. Mandrekar	
15.	Teacher	Mr. Prasad Shetgaonkar	Harmal Panchakroshi High School, Harmal, Pernem, Goa,
	Student	Miss. Saniksha S. Mhamal	
	Student	Miss. Prachi Santosh Naik	
16.	Teacher	Mr. Cedrico Monteiro	St. Theresa of Jesus High School, Canacona, Goa.
	Student	Mast. Prajwal Gaunkar	
	Student	Mast Shashwat S. Pai	
17.	Teacher	Alria Rosalia De Souza	St. Thomas High School, Cansaulim, Mormugao, Goa.
	Student	Mayzelle Shamin Teixeira	
	Student	Swizel Fernandes	
18.	Teacher	Mrs. Vidhya Mandrekar	St. Michael's Convent High School, Vagator, Anjune, Bardez, Goa.
	Student	Miss. Hiya Gawande	
	Student	Shahid Shaikh	
19.	Teacher	Vanessa E. Gouveia	St. Francis Xavier High School, Mapusa, Bardez, Goa.
	Student	Ziya Aftab Shaikh	
	Student	Rida Y. Shaikh	
20.	Teacher	Mrs. Dalila Maria Iria Dacosta	People's High School, Panaji, Tiswadi, Goa.
	Student	Miss. Prachi S. Zarmekar	
	Student	Miss. Antara S. Kuvelkar	
21.	Teacher	Dishanta Budkuley	A. J. De. Almeida High School, Ponda, Goa.
	Student	Miss. Pranisha S. Bhandodkar	
	Student	Mast. Atharva Khandekar	
22.	Teacher	Mrs. Joecy Henrya Lourenco	Chubby Cheeks Spring Valley High School, Pilerne, Alto Porvorim, Bardez, Goa.

	Student	Miss. Rubi Kumari Singh	
	Student	Miss. Micolle C. D'Souza	
23.	Teacher	Mr. Samir Umariye	
	Student	Yadnya Mahalkar	Saraswat Vidyalaya High School, Khorlim, Mapusa, Bardez, Goa.
	Student	Avani Marathe	
24.	Teacher	Ian Pinto	St. Britto High School, Mapusa, Bardez, Goa.
	Student	Athan Lobo	
	Student	Aiden Trindade	
25.	Teacher	Mrs. Anita Clemente	Our Lady of Rosary High School, Fatorda, Salcete, Goa.
	Student	Miss. Sklunita Das	
	Student	Mast. Subham Sahoo	
26.	Teacher	Mrs. Geetanjali	Dnyanprassarak Vidyalaya, Mapusa, Bardez, Goa.
	Student	Miss. Sandhya Vishwakarma	
	Student	Mast. Ved Narvekar	
27.	Teacher	Priyanka Barneto	St. Joseph Convent High School, Nagoa, Verna, Salcete, Goa.
	Student	Mast. Raj Ghosal	
	Student	Miss. Anushka Sharma	
28.	Teacher	Miss. Presscy Fernandes	Perpetual Succour Convent High School, Navelim, Salcete, Goa.
	Student	Miss. Swancy Fernandes	
	Student	Miss. Manvi U. Gaonkar	
29.	Teacher	Urmila Tari	Bhatikar Model High School, Margao, Salcete, Goa.
	Student	Miss. Siya Salil Bhobe	
	Student	Miss. Ruhi Suraj Naik	
30.	Teacher	Denisa Coutinho	Mae Dos Pobres High School, Nuvem, Salcete, Goa.
	Student	Myson Fernandes	
	Student	Reeza Miranda	
31.	Teacher	Rhoda Theresa Luis	Our Lady of Mount Carmel High School, Arambol, Pernem, Goa.
	Student	Azaniah Rodrigues	
	Student	Samaira Tamankar	
32.	Teacher	Mr. Neelesh G. Sawant	Shri. Saraswati High School, Juve, Tiswadi, Goa.
	Student	Mast. Sitaram R. Sawant	
	Student	Mast. Aashay A. Naik	
33.	Teacher	Beuerley A. Rodrigues	Holy Spirit Institute, Margao, Salcete, Goa.
	Student	Supam Kumar Mondal	
	Student	Francisco Saldanha	

34.	Teacher	Mrs. Faviola De Sa Ej. Peixoto	Mount Mary's High School, Chinchinim, Salcete, Goa.
	Student	Mast. Soham Juvekar	
	Student	Mast. Aaron Gomes	
35.	Teacher	Miss. Adlia Zeona Travasso	Fr. Agnel Multipurpose High School, Verna, Salcete, Goa.
	Student	Miss. Rhea A. Siqueira	
	Student	Mast. Noel D. Valadares	
36.	Teacher	Mrs Fatima Braganza e. Gomes	Don Bosco High School, Tuem, Pernem, Goa.
	Student	Mast. Aryan Naik	

	Student	Miss. Adishree Shetye	
37.	Teacher	Mr. Santosh Tawadkar	Shri. ;Nirakar Vidyalaya, Mashem, Conacona, Goa.
	Student	Miss. Vedangi P. Dessai	
	Student	Astik A. Prabhugaonkar	
38.	Teacher	Mrs. Priya Chinchrekar	Vidya Vikas Academy, Comba, Margao, Salceste, Goa.
	Student	Miss. Nia Egipsy	
	Student	Mast Siddhant Parab	
39.	Teacher	Mr. Avinash Virnodkar	Bal Bharati Vidyamandir, Ribandar, Tiswadi, Goa.
	Student	Mast. Sairaj Khandeparkar	
	Student		
40.	Teacher	Rajeshree Fernandes	M.I. B. K. High School, Khandepar, Ponda, Goa.
	Student	Pradnesh Arun Parab	
	Student		
41.	Teacher	Lorraine P. Fernandes	St. ;Jonh of the Cross High School, Sanquelim, Bicholim, Goa.
	Student	Mast. Anmol Desai	
	Student	Miss. Pranjali Gaonkar	
42.	Teacher	Cynthia Fernandes	Fr. Agnel High School, Pilar, Tiswadi, Goa.
	Student	Mast. Jairaj Patekar	
	Student	Mast. Joel Mathew	
43.	Teacher	Mr. Mahesh M. Naik	Our Lady of Lourdes High School, Valpoi, Sattari, Goa.
	Student	Mast Soham Vaze	
	Student	Miss. Sachi N. Rane	
44.	Teacher	Mr. Amogh P. Budkuley	V.D. & S. V. Wagle High School, Mangeshi, Ponda, Goa.
	Student	Mast Sainavesh R. Naik	
	Student	Miss. Sharvani S. Phadte	
45.	Teacher		Fatima Convent High School, Margao, Salcete, Goa,
	Student	Micaela Noela Palmeria	
	Student	Keena Eleora Cabral	
46.	Teacher		St. Anne's Institute, Agonda, Canacona.
	Student	Arshdeep Dhillon	
	Student		





Chief Guest Dr. Hari Kadam, Associate Professor, Dept. of Chemistry, Goa University addressing the gathering



Students are honoured with Prizes



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Prize winning students along with chief guest and GSCST officials

Based on their participation seven best entries in each competition were shortlisted by the judges and awarded with prizes.

**The result of the said competitions is as under: -**

### **Quiz Competition**

- 1<sup>st</sup> Prize: - – Miss. Avani R. Marathe, Saraswat Vidyalaya, Mapusa, Bardez, Goa.  
 2<sup>nd</sup> Prize: – Mast. Noel Domnic Valadares, Fr. Agnel Multipurpose High School, Verna, Salcete, Goa..  
 3<sup>rd</sup> Prize: -Mast. Aashay A. Naik, Shri Saraswati High School, Juvem, Tiswadi, Goa.

### **Consolation Prizes**

- 1<sup>st</sup> Consolation: - Miss. Defny Pereira, Our Lady of Remedies High School, Nerul, Bardez, Goa.  
 2<sup>nd</sup> Consolation: Miss. Pratiksha R. Yadav, Anjuman Himayatul Islam High School, Baina, Vasco, Goa  
 3<sup>rd</sup> Consolation: Mast. Prajay S. Velip, Govt. High School, Morpirla, Queqpem, Goa.  
 4<sup>th</sup> Consolation: Mast. Subham Sahoo, Our Lady of Rosary High School, Fatorda, Salcete, Goa.

### **Poster Competition**

- 1<sup>st</sup> Prize: - – Miss. Avani Hegde - IX, G.S. Amonkar Vidyamandir, Mapusa, Bardez, Goa.  
 2<sup>nd</sup> Prize: – Miss. Sanjana Naru Naik – IX, Mandre High School, Mandrem, Pernem, Goa.  
 3<sup>rd</sup> Prize: -Mast Jairaj Patekar - IX, Fr. Agnel High School, Pilar, Tiswadi, Goa.

## Consolation Prizes

1<sup>st</sup> Consolation: - Miss. Hiya Gawande - VIII, St. Michael Convent High School, Anjuna, Bardez, Goa.

2<sup>nd</sup> Consolation: Mast. Arnav Arun Singh – IX, Our Lady of Grace High School, Bicholim.

3<sup>rd</sup> Consolation: Miss. Miss. Yadnya S. Mahalkar - IX, Saraswat Vidyalaya, Mapusa, Goa.

4<sup>th</sup> Consolation: Miss. Swancy Fernandes – IX, Perpetual Succour Convent High School, Navelim, Salcete - Goa.

## Poster Competition



1<sup>st</sup> position



2<sup>nd</sup> position

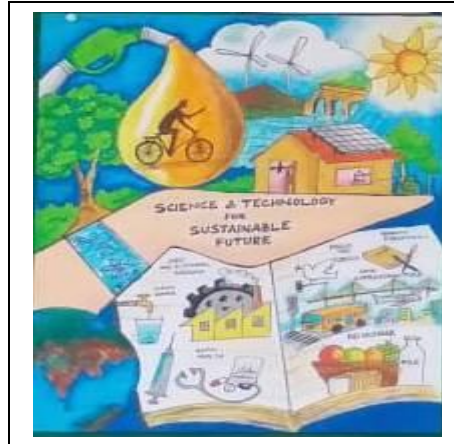


3<sup>rd</sup> position

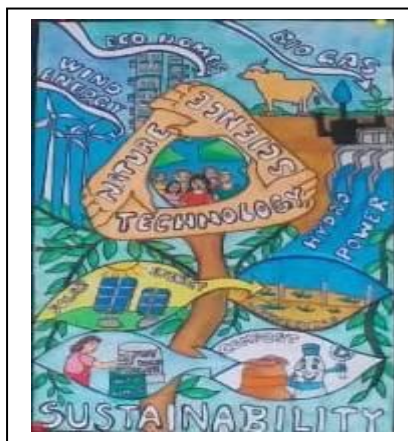




1<sup>st</sup> Consolation



2<sup>nd</sup> Consolation



3<sup>rd</sup> Consolation



4<sup>th</sup> Consolation



At the valedictory programme on 16/03/2022 at Goa Chambers of Commerce and Industries, Panaji Goa. prizes and participation certificates were awarded at the hands of Chief Guest Dr. Hari K. Kadam, Asst. Professor (Chemistry), School of Chemical Sciences, Goa University, Taleigao, Goa, and Shri. Naguesh Sardessai, Sr. Teacher, People's Hr. Secondary School, Mala, Panaji, Goa.

Mr. Kalidas Saterdekar, Drawing Teacher from Govt. High School, Sadar, Ponda was the Judge for Poster Competition and shortlisted best seven prizes for Poster competition. Mr. Naguesh Sardessai, Sr. Teacher from People's Hr. Secondary School, Panaji conducted the on stage Oral round for Quiz and shortlisted 7 best prizes for Quiz competition. Shri. Pravin Parab compared the programme, Smt. Brenda Fernandes, Project Scientist, welcome the gathering, Mr. Sanjeev Chodankar, declared the prizes & Mr. Francisco Lucas proposed vote of thanks.

**The other Educational institutions celebrated NSD-22 and their report is as under:**

**1) Perpetual Succour Convent, Navelim Salcete**

Perpetual Succour Convent High School catalysed and supported by the National Council for Science & Technology Communication Govt. of India, New Delhi, in association with Goa State Council for Science and Technology, Saligao, organized the National Science Day Programme '**ScienceSpark2022**' on 24<sup>th</sup> February 2022.

Our honorable Chief Guest for the day was **Shri. Manoj B. Sawaikar**, Asst. Director of Education, Directorate of Education (Porvorim- Goa). The arrival of the chief guest was echoed in the school campus with the enthralling rhythmic beat of the school band as he was escorted to the school hall.

Our guest of honour for the day was Mrs. Brenda Fernandes (Project Incharge - Goa State Council of Science and Technology) and our special invitee, Mrs. Sharmila Cabral De Abreu (Block Resource Coordinator). All of them were given a warm welcome through a floral tribute.

The programme began with moments of grace, a short prayer service and a prayer dance followed by the lighting of an innovative scientific lamp. It was a model on sustainable development using Arduino technology. The theme for National Science Day 2022 was *INTEGRATED APPROACH IN SCIENCE AND TECHNOLOGY*

*FOR A SUSTAINABLE FUTURE*. Everybody in the audience paid tribute to the great Sir. Raman, as the Chief guest garlanded the portrait in deep reverence.

Our headmistress, **Rev. Sr. Liberata Fernandes** in her welcome address, elaborated upon the above theme and the intricacies of the unique logo designed based on the same. She applauded the budding scientists for their contribution towards the success of the event.



The entire ambience was magical and vibrant with the wonderful **theme based décor** around the place. The special attraction of the event was the **'Coding section'**, where young tech-savvy students created projects using coding, also promoting awareness onto topics such as clean environment, health and hygiene, etc.

The projects on display at the **'Electronics section'** were exceptional. Some of them used Arduino technology while others worked on IR sensors. These projects captivated the audience, particularly the children. The chief guest's keen interest in the various projects and his interaction with the students was noteworthy.

A group of students demonstrated Newton's laws of motion in the section called **'Newtonian Mechanics'**. They made the laws simple to understand and reflect upon the applications in our daily life.

The venue was lit up by the fancy **'Science photo booths'** displayed at various locations to allow the audience to capture their memories of the event. The members of the audience, including our distinguished guests were excited to 'grab the props and strike a pose' at these photo booths.



The **motivational quotes of renowned scientists** kept on display added value to the ceremony as they inspired young minds to walk in the footsteps of the great personalities.

The foot-tapping **Science Spark anthem** sung by the Angelic Echoes of PSC, resonated the venue. The young comperes of the day took us back in time as they dressed as Einstein and Madam Curie, also animating the programme using **atime machine model**.



The prizewinners of some of the activities got an opportunity to display their talent on stage. Some of these were, 'Meet the Scientist in me', in which a student gave a remarkable performance in the attire of the great Indian scientist – Asima Chatterjee. A video of a student of class VI demonstrating an interesting experiment on surface tension also caught the attention of the audience. An informative PowerPoint presentation by a student of class VIII illustrated the various STEM career options.

The **science report** read by Mrs. Joan Gracias highlighted the various competitions held to mark this celebration. The report included the several laurels won by the school in the field of Science and technology at State and National levels.

The **Chief Guest's address** was thought provoking and inspiring. He expressed special concern in collaborating science with vocational studies. Going back to mother earth and innovation in daily lives should be considered as a part of learning, he said. He also congratulated and applauded the students for their great effort in putting up the exhibits. The way he engaged himself and interacted with the students was impressive. With his motivational address, he inspired the audience to foster their scientific temper.

As an extended part of Science Spark 2022, an interesting **session on Space Exploration** was organized for the students of Class X on 19<sup>th</sup> February 2022. The Resource person for the day was Dr. Vithal Tilvi, the founder of the farthest group of galaxies (Professor – Research Development and Innovation, State Higher Education Council, Directorate of Higher Education, Goa). He was also accompanied by Dr. Niyan Marchon (Professor – Teaching, learning and educational technology, State Higher Education Council, Directorate of Higher Education, Goa). The session was extremely engaging and informative.

On the same day, students of Class V attended an online session **SCIFUN 2022** organised by the B.Ed trainees of GVM's Dr. Dada Vaidya College of Education Ponda. Different scientific concepts with eye catching and mind molding demonstrations were shown during the programme.

Science Spark 2022 consisted of an array of competitions which were held across the month of February involving students from Class I to Class X. Following is a list of the competitions held, description, rules and the judging criteria used for the same.



**A) Achiever's test:**

Students of Class I to X answered the achievers test that tested the Scientific knowledge of the students. The papers were set based on content, logical reasoning and application.

The format of test was Multiple choice questions sent across through time-bound google form. The winners were decided based on accuracy coupled with speed.

**B) Class-wise competitions for each section:**

**CLASS I: YOUR HEALTH IN YOUR HANDS**

***(Poster competition)***

Designing a poster depicting healthy and nutritious diets. **Judging criteria:** Layout, design, colour combination, impact.

**CLASS II: IF YOU CAN'T USE IT, REFUSE IT**

***(Cloth bag designing)***

Painting/decorating a cloth bag on the theme 'Say No to Plastic'.

**Judging criteria:** Neatness, Creativity, Design, Overall presentation.

**CLASS III: PAINT THE POT- (Painting earthen pots)**

Painting earthen pots with creative treks on the themes, 'Save water and it will save you' and 'If you litter, the future will be bitter'.

**Judging criteria:** Creativity, visual appeal, neatness, overall presentation.

**CLASS IV: TRICK IT OUT- (Science tricks)**

Presentation of a trick using scientific principles.

**Judging criteria:** Scientific principle, effective delivery, demonstration skill, overall presentation.

**CLASS V: MEET THE SCIENTIST IN ME- (Monologue)**

Presentation of a monologue of a scientist's life or any scientific entity.

**Judging criteria:** Content, delivery, costume, overall presentation.

**CLASS VI: FUN-TASK-IT- (Science experiments/ fun activities)**

A display of simple science activities or experiments while explaining the scientific principle behind the working.

**Judging criteria:** Creativity, scientific approach and principle, demonstration skill, overall presentation.

**CLASS VII: LET'S HELP MUMMY- (Innovative gadgets)**

Creating a home appliance to make our mother's work simpler and quicker using technology.

**Judging criteria:** Novelty, applicability and usefulness, cost effectiveness, user friendliness.

**CLASS VIII: TO THE POINT!**

***(Power point presentation)***

Preparing a power point presentation of 6-8 slides to explore job opportunities in STEM (Science, technology, engineering and mathematics)

**Judging criteria:** Design, relevance to the theme, effective use of facts and details, clarity.

**CLASS IX: INNOVATE AND EXHIBIT**

***(Science models)***

A vivid display of science models. Students were given a wide range of topics to choose from such as Newton's laws of motion, robotics, mushroom culture, etc.

**Judging criteria:** Creativity, scientific principle, viva, overall presentation.

**CLASS X: GIVE YOUR BEST SHOT- (Photography)**



Capturing Goa's biodiversity in a photograph and attaching an environmental message to it.

*Judging criteria:* Creativity, composition, clarity, visual appeal

The incredible performance put up by all the participants made this event a great success. The **Valedictory function** was the much awaited moment of the day. The participants' efforts were applauded by rewarding them with medals and certificates for excelling at the Achiever's test. The winners of the class wise events were awarded a memento and a certificate each. The participants of the Olympiad and all other state level and national level winners were also appreciated for their hard work by presenting them with a certificate for their outstanding performance. The entire event was spectacular and it concluded with the vote of thanks proposed by the Mrs. Maria Furtado. The tag line for SCIENCE SPARK 2020 became the most significant message for the all the participants.....IGNITE AND ILLUMINE...!



## 2) St. Xavier College, Mapusa

Report of the National Science Day (NSD) 2022 Celebrations at St.Xavier's College, Mapusa Goa.

The Department of Physics, St. Xavier's College, Mapusa Goa celebrated the National Science Day with a Seminar talk and Quiz competition for students of higher secondary schools (HSS) across Goa on March 12, 2022 in an online mode. Prize distribution ceremony was held on March 15, 2022 in offline mode. This event was catalyzed & supported by National council for Science & Technology Communication (NCSTC), DST, Govt. of India, New Delhi with the support of Goa State Council for Science & Technology (GSCST), Saligao,Goa. The link for online registration was <https://forms.gle/ocCFF9whMNphKgTK6> The google meet link for participation was <https://meet.google.com/coy-antf-qpc> Teachers and Students of six higher secondary schools (HSS) from Goa participated in the NSD 2022 celebrations held online on March 12, 2022. Prof. J. A. Erwin Desa an eminent personality was the resource person for the seminar talk. The focus of the talk was to instill a liking and excitement for physics as a subject

for higher studies or career, to create an awareness of recent advances in the field of Physics and to inform the students about the various opportunities in Physics. The talk was very informative and interesting. Two students from each of the participating HSS took part in the Quiz competition based on Science and Physics. The first place was awarded to S.V.'s Purushottam Walawalkar HSS, Khorlim, Mapusa Goa. The second place was won by St. Xavier's HSS, Mapusa Goa and the third place was won by St. Francis Xavier's HSS, Siolim Goa. The winners HSS were awarded Trophies and the participating students and teachers were awarded Prizes and Certificates. The Prize distribution was held in an offline mode on March 15, 2022 in the college seminar hall followed by refreshments. Some of the photographs are attached below herewith.

Dr. Benedict Soares  
Benedict Soares  
Coordinator, NSD2022 celebrations  
Dept. of Physics, St. Xavier's College  
Mapusa Goa.



### 3) St. Michael's Convent, Anjuna Vagator

St. Michael's Convent High school celebrated the National Science Day on 28<sup>th</sup> February 2022 in association with Goa State Council of Science and Technology in the school hall with the theme 'Integrated approach in Science and Technology for Sustainable Future'.

Mrs. Victoria S. De Souza, Principal of St. Xavier's Highersecondary School, Mapusa, graced the occasion as the Chief Guest, while Mr. Sanjeev Chodankar, technical officer from Goa State Council for Science and Technology was the Guest of honour.

The day began with a prayer service Invoking God's blessings. A solemn tribute was paid by garlanding the portrait of Sir. C.V. Raman the famous Indian physicist

for his contribution to the field of Science.at the hands of Headmistress Rev.Sr.Margaret Rodrigues who welcomed the gathering thereafter.

An innovative opening called ‘Bubble blaze” gave a kick start to the event while the chief guest Mrs. Victoria D’Souza declared the celebration open.

Miss Saiesha Betkar, member of St. Michael’s Science Club spoke on the significance of the day which was supported by a PowerPoint presentation.

As a tribute to the Indian Scientists for their remarkable contribution to the world of science, a video was screened for the audience.

To provide opportunities for the budding scientist and to trigger their scientific mind various competitions were conducted to mark the science day

- ❖ My discoveries
- ❖ Poster Making
- ❖ Science Project

### **My DiscoveriesCompetition**

My Discoveries competition was held for the students of Std VII and VIII. They were dresses as famous scientists and explained about the life of the scientist and his/her famous discoveries. They could use suitable props to support the act.

### **Awareness Skit- Give it a thought**

It is said prevention is better than cure. A beautiful skit entitled ‘Give it a thought’ was presented to create awareness on the prevention of Mental health Diseases.

Due to the lockdown people have undergone a lot of stress that leads to various mental health issues. Prevention can help all of us, whether we currently have good mental health or not. We all have mental health that changes depending on what’s happening in our lives. The skit was presented to highlight the same.

A poster making competition was organized for the students of Primary and Std VII based on Science ,Technology for a sustainable future A good response was seen by the students by presenting beautiful posters

### **Science Project Competition**

A science project competition was held for the students od std IX and X. A lot of hardwork was put in by the students in preparing their projects to make it creative and innovative with a sustianable approach.

## **Words of Wisdom**

Our Chief guest Mrs. Victoria S. De Souza, Principal of St. Xavier's Higher secondary School, Mapusa who also was the Guest speaker for the day very beautifully explained the purpose of the celebration she said that its main aim is to make the young minds develop interest in science and technology. She appealed to the students to have a curious mind. Explaining the theme Mrs. Victoria said that the Integrated Approach in Science and technology helps us in making connections and having a unified view of the reality enhances the capability to attain sustainability for future. She also appreciated the talent display of the students.

Certificates and prizes were awarded to the winners of all the competitions



#### **4) S. S. Angle Higher Secondary School, Mashem, Canacona**

A two day science festival to mark the National Science Day was celebrated at S. S. Angle Higher Secondary School, Mashem, Canacona on February 25 and February 26, 2022 with an exhibition of science projects and posters prepared by students from 19 schools in Canacona.

Various inter school competitions including the science project competition, a science quiz competition and a stone painting competition besides street play and group singing competitions were held on the occasion. Total 19 schools from Canacona Taluka participated in the event.

##### **1. Science quiz competition**

- 1<sup>st</sup> Prize- Shri Nirakar High School
- 2<sup>nd</sup> prize- St Tereza of Jesus High School
- 3<sup>rd</sup> Prize- Shree Balram Residential High School
- 4<sup>th</sup> Prize- St Anthonys High School

##### **2. Science project competition**

- 1<sup>st</sup> Prize- Shree Mallikarjun Higher Secondary School
- 2<sup>nd</sup> Prize- St. Sabastian High School
- 3<sup>rd</sup> Prize- Govt. Higher Secondary School

##### **3. Science Song Group singing competition**

- 1<sup>st</sup> Prize- Shree Shraddhanand High School
- 2<sup>nd</sup> Prize- Shree Mallikarjun Higher Secondary School
- 3<sup>rd</sup> Prize- Shri Nirakar High School

##### **4. Stone Painting Competition**

- 1<sup>st</sup> Prize- Shri Mallikarjun High School
- 2<sup>nd</sup> prize- Shri Mallikarjun Higher Secondary School
- 3<sup>rd</sup> prize- Shri ShraddhanandVidyalaya
- 4<sup>th</sup> prize- Govt. Higher Secondary School

##### **5. Street play Competition**

- 1<sup>st</sup> Prize- Shri Nirakar High School
- 2<sup>nd</sup> Prize- Shri ShraddhanandVidyalaya
- 3<sup>rd</sup> Prize- Shri DamodarVidyalaya

Dr Santosh Vernekar spoke on 'Personal Healthcare' and the need for a scientific attitude in dealing with health care matters.

The theme of the National Science Day (NSD) 2022 was 'Integrated Approach in S&T for Sustainable Future'. February 28 is observed as the National Science Day to mark the discovery of the 'Raman Effect' by Sir Chandrasekhara Venkata Raman on February 28, 1928 for which he was awarded the Nobel Prize in Physics in 1930.



The programme was backed by the National Council for Science and Technology, Government of India and the Goa State Council for Science and Technology, Saligao, Goa.

Dr Nitin Sawant Assistant Professor Department of Zoology at the Goa University was the Chief Guest at the valedictory function. Dr Sawant while appreciating the science projects on display emphasised the need to cultivate a scientific temperament and tap innovative ideas among children with innovative science projects. He also drew the attention of the teachers and students to the need for environment conservation and said that all developmental works in harmony with nature should be encouraged.

The valedictory function was presided by Shri Nirakar Education Society Chairman Mr Prashant Naik. Mr Naik speaking on the occasion stressed on the need for a more proactive role to be played by students today. He observed that the students need to be more vibrant and energetic on many issues in the state particularly in terms of environment conservation.

The Principal of S. S. Angle Higher Secondary School Mr Hemant M. Kamat gave the welcome address. The Science Day Co-ordinator Mrs Chandralekha D. Mestri read out the report of the two day events along with a video presentation.

Mr Vassallo Carvalho proposed the vote of thanks. Anthony M Barreto compered the programme.



1<sup>st</sup> Prize in Science Project Shree Mallikarjun  
Higher Secondary



2<sup>st</sup> Prize in Science Project – St Sabastian  
High School

**1<sup>st</sup> Prize in Science based Folk Song singing Competition- Shri Shraddhanand High School**



**2<sup>nd</sup> Prize in Science based Folk Song singing Competition- Shree Mallikarjun Higher Secondary School**



**SCIENCE QUIZ**





### JUDGES FOR THE STONE PAINTING COMPETITION



### 3<sup>rd</sup> Prize in Stone painting Competition- Shri Shraddhanand High School



## 5) St. Britto High School, Mapusa, Goa

The Science club of ST. BRITTO HIGH SCHOOL, Mapusa in association with National Council for Science and Technology Communication, (NCSTC) New Delhi in support of Goa State Council for Science and Technology Saligao, conducted the online visual Power point presentation competition to mark the National Science Day 2022.

TOPIC: SCIENCE AND TECHNOLOGY FOR SUSTAINABLE FUTURE.

The programme was as follows :

19.02.2022 - Intra school online visual Powerpoint presentation competition was conducted for the students of std VII to std X in which all together 14 students have participated. The competition was judged by Tr. Tanvi Naik and Br. Jonathan D'Souza.

Two Prizes were awarded in each category.

22.02.2022 - INTER SCHOOL Online Visual Power point presentation on the topic Science and Technology for sustainable future. In which all together 15 schools from North Goa took part each student from the participating schools presented their views with the help of Power point presentation. The judges for the competition were Dr. Rajesh Pednekar (Asst. professor in Chemistry, DMC College, Mapusa) and Dr. Richard D'Souza (Researcher at University of Michigan) Three winners were declared.

1<sup>st</sup> Prize – ST. THOMAS GIRLS H/S, ALDONA.

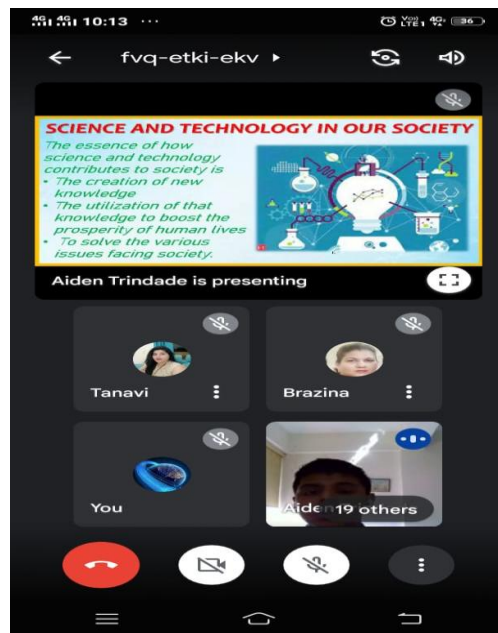
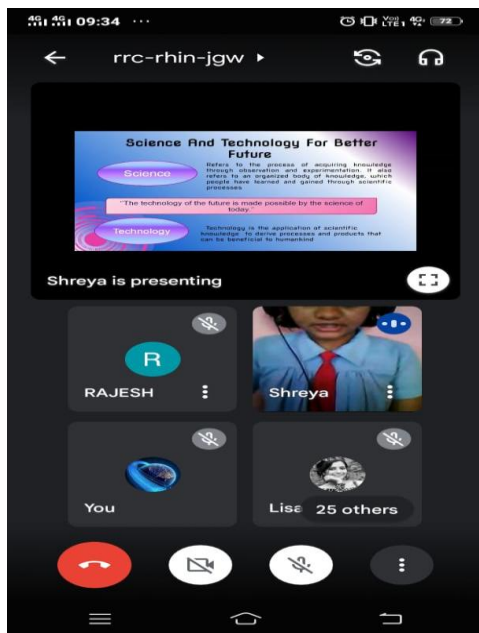
2<sup>nd</sup> Prize – ST. FRANCIS XAVIER H/S, MAPUSA.

3<sup>rd</sup> Prize – DATTARAM MANTRAVADI MEMORIAL H/S, MAPUSA.

25.02.22 - Prize Distribution cum felicitation programme in offline mode.

Talk by Fr. Richard D'Souza (Scientist from Vatican observatory Rome)

The Prize distribution and felicitation programme was held in offline mode in the school hall where the students had the privilege to listen to the talk addressed by special invitee Dr. Richard D'Souza Scientist from Vatican observatory Rome) and the presentation of three prize winner from inter school category, thereafter the prize distribution function was witnessed by the chief guest Fr. Simon de Melo (HEADMASTER) and guest of honor Mr. Sanjeev Chodankar (Project Coordinator of GOs State Council for Science and Technology Saligao Goa)





## 6) Vidhya Vihar High School, Thana Cortalim

National Science Day is celebrated every year on 28<sup>th</sup> February to commemorate the discovery of the 'Raman Effect'. On this day, Indian physicist Sir C.V. Raman announced the discovery of the Raman Effect for which he was awarded the Nobel Prize in 1930.



**FACULTY INCHARGE: Ms. Khushnaz Begum Khan & Ms. Neelam Prabhu Desai**

Vidhya Vihar High School celebrated National Science Day for two days, i.e., on 3<sup>rd</sup> and 4<sup>th</sup> March 2022 to pay a tribute to the great scientist Sir C.V Raman. The main objective behind this event was to develop the scientific temper and boost up the scientific attitude among the students. The theme for the science day celebration for the year 2021-22 was *"Integrated approach in science and technology for sustainable future."* The event was catalysed and supported by National council of science and technology communication (NCSTC), DST. Govt. of India, New Delhi in association with Goa State Council for Science and Technology (GSCST), Saligao Goa.



## **DAY-1 (3/3/2022)**

Science day celebration programme on both the days was hosted by Ms. Maria Godinho and Ms. Risha Texeira. The chief guest for the Inaugural function was Dr. Gautam Krishnan, Assistant Professor in California based university. The headmistress Ms. Premalata Rathod welcomed and addressed the gathering. The chief guest highlighted the importance of the day and motivated the students.

In order to mark the importance of the day, the portrait of Sir C.V Raman was garlanded by the chief guest.

### **Science Fab-lab show:**

A special science corner was set up by the students of Vidhya Vihar High School. Various innovative science experiments were performed and explained by the students on both the days. This innovative Fab -Lab show was inaugurated by the chief guest Dr. Gautam Krishnan.



**The competitions conducted on 3<sup>rd</sup> March 2022 (Day-1) are as follows:**

- a) National science bowl
- b) Poster competition
- c) Elocution competition

1. **National Science bowl:** Science quiz contest was conducted for the students of class 7 to class 9. Each team comprised of two participants. Altogether four neighbouring schools participated in the competition.

#### **Results:**

Prize	Name	School
1 <sup>st</sup>	Mast. Pranav Supugade & Ms. Samiksha Naik	St. Joseph Vaz HS Sancoale
2 <sup>nd</sup>	Miss. Sana Faisal & Mast. Zaid Khan	Al Madina High School

## 2. Poster competition:

Poster competition was conducted for the students of class 7 to class 9. The topic given for the poster competition was “*science and technology for sustainable future*”. Each participating school had nominated two participants from their school. The competition was judged by Ms. Sheryl Barbosa teacher, young entrepreneur and Ms. Pratiksha Prabhu Desai, science teacher at Bloomz International school, Baida, Nuvem margao, Goa.

### **Results:**

Prize	Name	School
1 <sup>st</sup>	Miss Sania Souz	St. Joseph Covent HS Nagoa
2 <sup>nd</sup>	Mast Narayan Maladkar	Keshav Smruti Bal Vikas
3 <sup>rd</sup>	Miss Priti Morya	St. Joseph HS Sancoale



## 3. Elocution competition:

Elocution competition was conducted for the students of class 8 and class 9. The topic given for the elocution competition was “*My role towards eco-friendly and sustainable living*”. Each participating school had nominated two participants from their school. The time limit given was maximum 3 minutes. The competition was judged by Ms. Sheryl Barbosa teacher, young entrepreneur and Ms. Pratiksha Prabhu Desai, science teacher at Bloomz International school, Baida, Nuvem margao, Goa.

### **Results:**

Prize	Name	School
1 <sup>st</sup>	Mast. Chandrakant Chopdekar	Keshav Smruti Bal Vikas Mandir
2 <sup>nd</sup>	Miss. Vaishnavi Bandekar	Vidhya Vihar High School
3 <sup>rd</sup>	Miss Arshiya	Al Madina High School





#### **4. Intra-school Science Chart Making Competition**

Science chart making competition was conducted within school for the following categories:

Class 3 to class 4- Category A

Class 5 to class 7- Category B

Class 8 to class 9- Category C

#### ***Results:***

**Category A-** 1. Miss Arya Shetkar  
Amisha Rane  
2. Miss Rebecca Saji

**Category C-** 1. Miss

2. Miss Pradkshina Pol

**Category B-** 1. Miss Shreya Gavali  
2. Miss Sarah Vaz  
3. Mast Cayden Baretto

#### **Day-2 (4/3/2022)**

The chief guest for the National science day programme on Day-2 was Dr. Suraj Marathe, Assistant professor and workshop Superintendent, Dept. of Mechanical engineering, Don Bosco, Fatorda, Goa. The programme began with the inauguration of science exhibition by the chief guest.

### The competitions conducted on 4th March 2022 are as follows:

1. Science Exhibition competition
2. Walk in as a scientist

#### **1. Science Exhibition:**

Science Exhibition was conducted for the students of class 8 to class 10. Each school had nominated two best science projects from their school. Each science project team comprised of two participants. The theme allotted for the science Model making was *"Integrated approach in science and technology for sustainable future"*.

The judges for the science exhibition were Mr. Sudip Faldesai, the Project officer, Goa State Innovation Council, Govt. of Goa. And Mr. Pranay Davasker, Project Head, Asier solutions.

#### **Results:**

Prize	Names	School
1 <sup>st</sup>	Mast Ferdinand Fernandes & Mast Aviden D'mello	Vidhya Vihar High School
2 <sup>nd</sup>	Mast Umesh Gajula & Miss Bhanushree Vanumu	St. Joseph Vaz HS Sancoale
3 <sup>rd</sup>	Mast Mubarak Mulla & Mast Narayan Maladkar	Keshav Smruti Bal Vikas Mandir



#### **Walk in as a scientist:**

The competition was conducted under three categories.

Category A (class 3 and class 4),

Category B (class 5 and class 6) and

category C (class 7 and class 8)



Participating schools had nominated one participant under each category. Participants had dressed up as the scientist. They also spoke as a scientist for two minutes. The competition was judged by Ms. Sushma Patil, Teacher in Dada Vaidya High school Curti and Dr. Satish Faldesai, MBBS doctor intern at GMC, Goa.

**Results:**

<b>Category- A</b>		
<b>Prize</b>	<b>Names</b>	<b>School</b>
<b>1<sup>st</sup></b>	Mast Frezar Carvalho	St. Joseph Vaz HS Sancoale
<b>2<sup>nd</sup></b>	Mast Anson Rodrigues	Vidhya Vihar High School
<b>3<sup>rd</sup></b>	Mast Samarth Azgaonkar	Keshav Smruti Bal Vikas Mandir
<b>Category- B</b>		
<b>Prize</b>	<b>Names</b>	<b>School</b>
<b>1<sup>st</sup></b>	Miss Vaishnavi Sail	Vidhya Vihar High School
<b>2<sup>nd</sup></b>	Mast Viraj Chowgule	St. Joseph Vaz Convent HS Nagoa
<b>3<sup>rd</sup></b>	Miss Swati Patil	Keshav Smruti Bal Vikas Mandir
<b>Category- C</b>		
<b>Prize</b>	<b>Names</b>	<b>School</b>
<b>1<sup>st</sup></b>	Miss Pavitra Hiremat	St. Joseph Vaz HS Sancoale
<b>2<sup>nd</sup></b>	Nishtha Shotriya	Vidhya Vihar High School
<b>3<sup>rd</sup></b>	Priyanka Kudari	Keshav Smruti Bal Vikas Mandir



### **Valedictory function and prize distribution ceremony**

The chief guest Dr. Suraj Marathe appreciated the efforts put forth by all the participants and congratulated for the grand success of the programme. The judges also guided the students to work further on their projects and also invited them to the prototyping lab.

The prize distribution ceremony was held on 4<sup>th</sup> March 2022. Prize winners were awarded with the trophies.

The overall winning shield was awarded to Keshav smruti Bal Vikas Mandir school for scoring the maximum points. Last but not the least the headmistress proposed the vote

of thanks congratulating each and every person who contributed towards the event and made the event a grand success.

### **7) St. Joseph Vaz High School, Sancoale, Mormugao.**

St. Joseph Vaz High School, Sancoale Goa celebrated Science Day “Biofic -2022” on 18<sup>th</sup> February which was catalysed and supported by National Council for Science & Technology Communication Govt. of India, New Delhi in association with Goa State Council for Science and Technology, Saligao.

The objective of Biofic – 2022 was to foster scientific temper, curiosity, and innovative skill

Two inter school competitions were “Vouch for your veggie and Model Making competition. In response to the circular sent to the vicinity schools

#### ***The following schools participated:***

Al Madina High School, Nagoa Verna

Fr. Agnel High School, Pilar.

Infant Jesus Academy, Velsao

St. Joseph Convent High School, Nagoa Verna

St. Joseph Vaz High School, Sancoale.(Organizing school).St. Lawrence High School, Agassaim.

Santa Cruz High School, Santa Cruz.

Our Lady Of Perpetual Succour High School, Cortalim participated only in “Vouch for your Veggie” Competition.



On 18<sup>th</sup> February 2022, The programme began with a Prayer and Prayer dance invoking God's blessings. As National Science Day is celebrated on 28<sup>th</sup> February in the country to mark the priceless contribution of Raman Effect by scientist C.V Raman, the portrait of C.V Raman was garlanded by our Guest of Honour Rev. Sr. Berna Rodrigues. This was followed by the inaugural and unveiling of 'Biofic' logo, The logo BIOFIC 2022 is conceptualised and designed in coherence with science and technology to highlight the dire need of sustainable future. The unveiling of the logo was followed by the theme song that was sung by the students.

The venue was decorated with colourful backdrop of science symbols and instruments which enthralled the audience.

The Chief Guest for the mega event was Mr. Sebastiao Braganza, Headmaster of Infant Jesus Academy, Velsao and Guest of Honour was Rev. Sr. Berna Rodrigues, President of Holy Family of Nazareth Educational Society and Superior General of the Sisters of the Holy Family of Nazareth Congregation.



#### **8) Vidya Prasarak High School, Morjim, Pernem, Goa**

The National Science Day is celebrated annually on February 28 to commemorate the discovery of the Raman Effect by Indian Physicist Sir C. V. Raman on 28<sup>th</sup> February 1928 for his discovery. Vidyaprasarak High School Morji Pedne Goa had organized several activities during the current academic year 2021-2022 under the guidance and supervision of our Headmaster Shri. Dilip N. Methar and Science



teachers. This year the National Science Day was funded by Goa State Council for Science And Technology Saligao, Catalyzed and supported by National Council For Science And Technology Communication, DST Govt. of India. New Delhi.

Our school, Vidyaprasarak High School Morji Pedne Goa has organized National Science Day 2022 programme in school premises by conducting the activities for our school students and for the students of Mandre Super School Complex, Mandre in view to create awareness and explain the importance of science in everyday life.

The competitions organized are as follows:

**A - For Students Of Mandre Super School Complex, Mandre.**

**1] Inter school Science Project Exhibit Competition:-**

Theme :- Integrated approach in Science and technology For Sustainable Future

Number of participants: -02 (Std VIII & IX)

**2] Inter School Science Written Quiz Competition:-**

Number of Participants: -01 (Std VII )

**Participating Schools For The Science Day Programme.**

- 1] Mandre High School Mandrem
- 2] Our Lady Of Rosary School Mandrem
- 3] R.D. Khalap High School Mandrem
- 4] Peter Alvares Memorial High School Morji
- 5] Government High School Agarwada
- 6] Vidyaprasarak High School Morji

We received 100% participation of students in both inter-school competitions.

The interschool Science project exhibit was judged by Mr. Sudhir Mayekar and Mr. Rajan N. Patil.

**B - For students of Vidyaprasarak High School**

1] Class wise science project Exhibit in 2 categories.

Senior category [Std VIII & IX] and Junior Category [ Std V, VI, VII ]

2] **Class wise Poster making Competition**

Students from Std( V,VI,VII, VIII & IX )

The Science Day Programme was conducted in two sessions

**A] Inaugural Function**

**B] Valedictory & Prize Distribution Function**

**A] Inaugural Function**

The program was started by lighting the traditional lamp and by garlanding the photo of sir C.V. Raman by the hands of all the dignitaries on the dais, Prof. Tushar Anvekar (Principal Of Mandre College Of Commerce Economic & Management Mandre), Shri Prassanakumar M. Shetgaonkar, Manager Of Managing Committee, Special invitee Shri Rajan N. Patil (Ex. science teacher of V.P.H/S) , Shri Sudhir Mayekar (Ex. Head master of Mandre H/S), The P.T.A President Shri Sanjay Sawant, managing committee member Shri. Janardhan Shetgaonkar.

The function was inaugurated by lighting the scientific fire chemically by the hands of chief guest of the inaugural function Prof. Tushar Anvekar, (Principal Of Mandre College Of Commerce Economic & Management Mandre). The Headmaster of the school Shri Dilip N. Methar introduced the chief guest the special invitee and the dignitaries on the dais. Also given them a floral welcome. The in-charge Science teacher Shri Vishnu V. Phadte gave the brief report of the activity and the motive of the celebrating science day. A speech was delivered by student of std X Miss. Rutika Gadekar on the life history of Dr. C.V. Raman. The chief guest Prof. Tushar Anvekar addressed the gathering by his motivational thoughts. The first session of the programme was concluded with vote of thanks by Asst. teacher Shri Padmakar Naik.

## **B] Valedictory & Prize Distribution Function**

The second session of Prize Distribution Function commenced with a general welcome to the chief guest, the judges of the competition and the other dignitaries. The Prize Distribution Function witnessed the presence of the chief guest Shri. Devendra Arolkar, Ex-General Manager of Larsen and Toubro Pvt.Ltd. Mumbai. We also had a privilege of the presence of Mrs. PushpaArolkar, Shri. RajendraPatil and Shri.SudhirMayekar the special invitees and the judges of several competitions held on the occasion of Science Day celebration, the chairman of the School Managing Committee Shri. VishramShetgaonkar, The P.T.A President Shri. Sanjay Sawant, The executive member Shri. VishramMorajkar, the Ex-Teacher of School Shri.V.G.Shetgaonkar and the Headmaster of the School Shri.Dilip N. Methar. The teachers and student contestants of the Schools under Mandre Super School Complex were present to grace the occasion.

The function continued with a brief introduction to the function and its objectives. Introduction of chief guest, the judges of competition and other dignitaries was done by Mrs. ManjiriShetgaonkar. The significant part of the function that is Prize distribution ceremony was managed by Mr. DipteshHalankar who announced the names of the winners of different competitions that were been organised on the occasion of Science Day. It was scintillating experience to watch the victorious students receiving trophies and certificates by the hands of the chief guests, the judges and other delegates. The day was glorified with the address of Shri. SudhirMayekar and Shri.RajanPatil with their valuable guidance on the presentation of any exhibits, posters or experiments of Science and the important skills one needs to prepare oneself for any competition.

The function reached its charm with an address of the chief guest of the day Shri. DevendraArolkar who encouraged students for participation in competitions. He also reflected on efforts taken by the students in showcasing their talents.

Mementos were offered to the chief guest and the judges by the chairman of the school managing committee.

Concluding speech was delivered by Shri. V.G.Shetgaonkar. The program came to its conclusion with Vote of thanks proposed by Mrs. MandaShetgaonkar. The entire programme was anchored by Mrs. PranitaNaik.





## 9) St. Joseph Convent, Nagoa Verna

### NATIONAL SCIENCE DAY CELEBRATION(28 FEBRUARY,2022)

ST JOSEPH CONVENT HIGH SCHOOL,NAGOA –VERNA ,in association with Goa State Council For Science and Technology,Saligao,Catalysed and supported by National Council for Science and Technology Communication (NCSTC),DST,GOI,New Delhi celebrated **National Science Day** on 28<sup>th</sup> February,2022.

### THEME – Integrated Approach in Science and Technology for Sustainable Future.

On behalf of our Headmistress Rev. Sister Claret Varela and the Management I would like to thank Goa State Council for Science and Technology ,Saligao, NCSTC for financially backing us to celebrate the National Science day.

### Programme conducted on 26<sup>th</sup> February (INTRASCHOOL COMPETITIONS)

**\*Resource Person –Mr Santosh Gaonkar, HEADMASTER, Poira High School, Bicholim Goa.**

1 The Programme started with a short prayer., invoking God's blessings.



2. Sir Santosh Gaonkar demonstrated many experiments on stage highlighting different scientific Principles such as Air pressure, Newton's Laws of Motion, Chemical Reactions; Magnetic effects etc. The students of the class V-IX attended the Science Experiment Demonstrations. Parents and Teachers also appreciated science demonstrations by Sir Santosh Gaonkar.

### INTRA SCHOOL COMPETITIONS conducted on 26<sup>th</sup> February.

#### 1. SEED GERMINATION ACTIVITY FOR STD I-II

To create love for Nature and interest in Growing plants our Science Club organized Seed Germination competition for the Students of Std I-II. The best 12 participants were selected and given an opportunity to Participate on Stage.



Mr. SANTOSH GOANKER, the Resource person demonstrating Experiments on stage.



**The future belongs to Science and those who make Friends with Science..... (I AM a SCIENTIST Competition)**

Competitions held online:

- 1 Science Quiz (STD VIII-X) First Round
- 2 Nature Photography competition.(STD VIII-X)
- 3 Fancy Dress Competitions (Trees) For Pre-Primary.

## 28 FEBRUARY 2022 VALEDICTORY FUNCTION

Chief Guest:MrAlphonso Pereira.

Principal,Agnel Institute of Food Crafts and Culinary Sciences, Verna.

The Valedictory function was held in the Father Faustino Memorial Hall of the school at 10am. The Programme started with a Prayer service conducted by teachers and the students.



### ***Science day LOGO on the theme: I SPY SCIENCE***

#### **.INTERSCHOOL COMPETITIONS ORGANISED ON THE NATIONAL SCIENCE DAY.**

- 1 **FACE PAINTING COMPETITION (STD VIII-IX)**
- 2 **EXPERIMENTING WITH SCIENCE (STD VI-VII)**

Names of the Judges for the Face painting competition:

1. **Mr AshleyFernandes**
- 2 **Miss Alyssa Vaz.**

Names of the Judges for “Experimenting with Science” Competition:

#### **Names of the Schools participated in the Interschool competitions.**

- 1 St Joseph Convent High School ,Nagoa Verna.
- 2 FrAgnel Multipurpose HIGH School ,Verna.
- 3 St Joseph Vaz High School, Sancoale.
- 4 VidhyaVihar High School, Cortalim.





## Glimpses of EXPERIMENTING WITH SCIENCE

### Interschool, FACE PAINTING COMPETITION



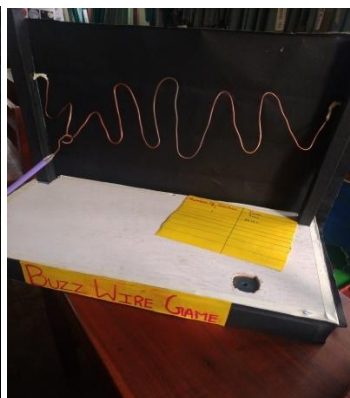
WINNERS are not people who never FAIL, but people who never QUIT







# STUDENTS ON STAGE FOR SCIENCE QUIZ NATURE PHOTOGRAPHY



## 10) Ganpath Parsekar College of Education, Harmal Pernem

### Type of the event :

- One-day state-level seminar and competitions for colleges and higher secondary schools

### Occasion:

- Commemoration of 'National Science of Day' (Theme: Integrated Approach in S&T for Sustainable Future)

**Mode:**Physical mode (Offline)

### Date and place:

- 15/03/2022 at Dnyanada Auditorium, HPSM's Ganpat Parsekar College of Education, Harmal- Goa, 403524

### Objectives of the event:

- To popularize science and strengthen scientific temper among students.
- To emphasize the significance of scientific research and motivate the students to take up research in the future.
- To provide a platform for the exchange of ideas between students and teachers of different institutes across the state.
- To provide an opportunity to the students to express their approach towards science through competitions.

### Participants registered for the event:

Participants	Count
Teachers (other institutes)	22
Students (other institutes)	42
Teachers (host institutes)	35
Students (host institutes)	164
<b>Total:</b>	<b>263</b>

### Organizing body:

- Department of Chemistry & Internal Quality Assurance Cell (IQAC)

### Members of the organizing body:

Sr. No	Name
1	<b>Dr. Pradnyesh Satardekar</b> (HOD-Chemistry & IQAC coordinator) - Convenor
2	<b>Ms. Anuja Naik</b> (Faculty- Chemistry Department and Member-IQAC)
3	<b>Mr. Rajendra Shetye</b> (Member- IQAC)
4	<b>Mr. Pritesh Naik</b> (Member- IQAC)
5	<b>Ms. Shradha Parab</b> (Faculty- Chemistry Department)

6	<b>Dr. Sudesh Morajkar</b> (Faculty- Chemistry Department)
7	<b>Ms. Navnita Sawant</b> (Member- IQAC)

**Funding body:**

National Council for Science & Technology Communication (NCSTC), DST, Govt. of India, New Delhi with the support of Goa State Council for Science & Technology (GSCST), Saligao, Goa.

**Amount funded:**

Rs.30, 000/- vide letter no. 1/30/2020-21/GSCST/NSD/175by GSCST dated 17/11/2021.

**More details of the event**

**Formal Function:**

Chief Guest	Guest of Honor	
<b>Mr. Laxmikant Parsekar</b> Chairman- HPSM	<b>Mr. Pradeep Morajkar</b> Associate Professor Department of Physics St.Xavier's College Mapusa – Goa	<b>Mr. Udeshe Natekar</b> Principal – HPSM's Ganpat Parsekar College of Education, Harmal - Goa

**Seminars:**

Sr. No.	Title of the talk	Resource Person
1	<b>Biomimetic Chemistry</b>	<b>Dr. Sunder Dhuri</b> Professor, School of Chemical Sciences, Goa University - Goa.
2	<b>Role of Science Research in Nation Building</b>	<b>Dr. Hari Kadam</b> Assistant Professor, School of Chemical Sciences, Goa University - Goa

**Competitions:**

**1) Intercollegiate oral presentation competition**

- Number of participating colleges:07
- Number of oral presentations:11

• **Judges:**

1	<b>Dr. Prajesh Volvoikar</b> , Assistant Professor School of Chemical Sciences, Goa University.
2	<b>Dr. Bhargav Alavani</b> , Assistant Professor School of Physical and Applied Sciences, Goa University.

• **Winner:**

<b>1<sup>st</sup> place</b>	<b>2<sup>nd</sup> place</b>	<b>3<sup>rd</sup> Place</b>
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<b>Ms. Ameesha Fernandes</b> Carmel College of Arts Science and Commerce for Women, Nuvem- Goa	<b>Mr. Pandurang Naik</b> DCT's Dhempe College of Arts and Science, Panjim- Goa	<b>Ms. Shwetakshi Mishra</b> DCT's Dhempe College of Arts and Science, Panjim- Goa
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## 2) Inter-higher secondary school poster making competition

- Number of participating Higher Secondary Schools: 08
- Number of posters: 10

### • Judges:

1	<b>Dr. MithilFal Desai</b> , Assistant Professor DPM's Shree Mallikarjun College, Canacona- Goa.
2	<b>Dr. Mira Parmekar</b> , Assistant Professor St. Xavier's College, Mapusa- Goa

### • Winner:

1 <sup>st</sup> place	2 <sup>nd</sup> place	3 <sup>rd</sup> Place
<b>Ms. Sinchana Naik and Mast. HarshalMardolkar</b> Shree Damodar HSS, Margao- Goa	<b>Ms. Tapasya Sharma and Ms. SaniaOleivera</b> DCTS VasantraoDempo HSS, Cujira, Santa Cruz- Goa	<b>Ms. Netra Hiremath and Ms. Tanvi Umesh Salunkhe</b> Govt. Multipurpose HSS, Borda, Margao-Goa

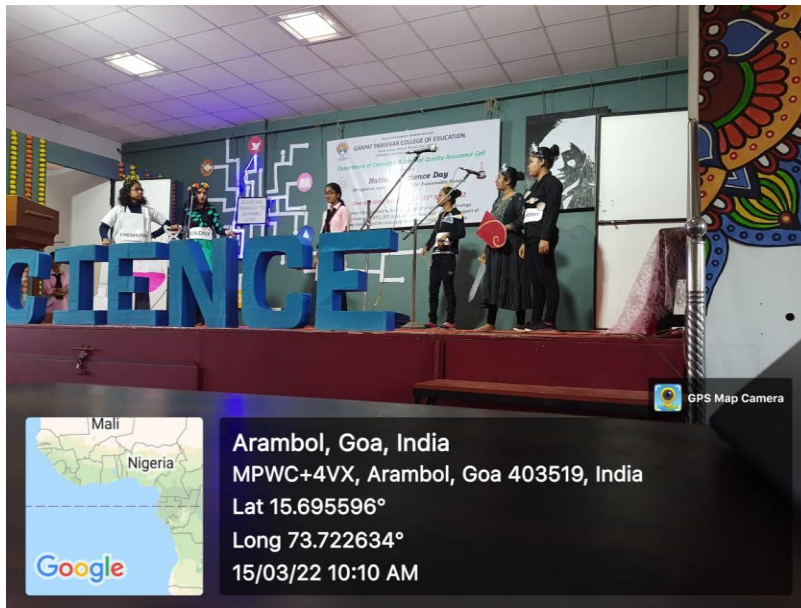
**Enclosures:** 1) Brochure of the event  
2) Photographs

(Dr.PradnyeshSatardekar)(Mr. UdesaNatekar)  
**Convenor Principal**





Oral presentation by a college student for intercollegiate oral presentation competition.



Skit by students on the journey of a science student, emphasizing the importance of science and technology.



Model on theme 'Sustainable Science and Technology'



Rangoli of Sir Abdul Kalam



Posters by students of higher secondary schools for inter higher secondary school poster making competition.

## 11) Rebuild India Trust, Agassaim, Tiswadi, Goa

National Science Day is celebrated in India on 28<sup>th</sup> February to mark the discovery of C.V. Raman. On this occasion Rebuild India Trust, Agassaim in collaboration with School of Symbiosis, Shiroda had organized National Science Day 2022. The event was catalysed and supported by National Council for Science and technology Communication, DST Government of India, with the support of Goa State Council for Science and Technology, Saligao Goa. The main highlight of the event was **“Sir C.V. Raman Rolling Trophy”**. It was an inter-school event wherein various competitions were organized for the school students of invited schools from Ponda and Quepem talukas. The theme for National Science Day 2022 was **“Integrated Approach in Science and Technology for Sustainable Future”**.

Various competitions like quiz, projects, PowerPoint presentation, solution design, science puzzles and many others were organized for school students. Altogether Eleven schools had participated in the event.

The programme began with a welcome song and by garlanding the portrait of Sir C.V. Raman followed by words of welcome by chairman of Rebuild India Trust, Shri. Abhay Bhamaikar. In his welcome address he highlighted the importance of Science and Technology for sustainable development.

Senior principal chief scientist of CSIR - NIO, Shri. Arvind Saran was the chief guest for the function along with chairman of NEP and Shivgram Education Society's Shri. Subhash Shirodkar. Chairman of Rebuild India Trust Shri Abhay Bhamaikar, management member of Shivgram

Education Society's Shri Sachin Shirodkar graced the event along with other dignitaries.

Addressing the event Shri. Saran highlighted the importance of science and technology in the world. He also appreciated the growing scientific appetite of students towards science & technology.

Shri.Subhash Shirodkar spoke about the changing education system and importance of science and technology. He highlighted the significance of working on creative science communication across disciplines.

Mast. RohanNaik, student from Daffodils primary School was felicitated on this occasion with "student par excellence award." Shri Sachin Shirodkar gave career talk to the students. Students demonstrated various science experiments they showcased their instinct knowledge of why and how of various scientific principles.

During the valedictory function headmaster of School of Symbiosis Shri. Benjamin Rocha welcomed all the dignitaries. In his address he urged everyone to show interest in science and technology as it is a need of an hour.

Distribution of prizes and certificates were done by the dignitaries.  
**Students of New Educational Institute Curchorem won Sir C.V. Raman Rolling Trophy 2022.**

Event concluded with vote of thanks by Mrs. Richa Joshi, teacher from School of Symbiosis. Shri.Shashank Joshi and Miss.AkshadaPalyekar hosted the event.

The main motive of this event was to inculcate scientific temper among school students.



## List of the Winners

1.	SCIENCE CONCEPT PRESENTATION		
i	Sarvodaya Education Society’s High School , Curchorem	1)MastAnubhav. M. Naik 2)MissUmangi. P. Naik	1 <sup>st</sup>
ii	Vidhya Vruddhi School	1)Mast ArnavParihar 2)Miss MehakMalviya	2 <sup>nd</sup>
2.	SOLUTION DESIGN		
i	Gurukul Academy Day care School	1)MissShambhavi . S Kinjawadekar	1 <sup>st</sup>
		2) Mast Bindav Ravindra Kerkar	
ii	Vidhya Vruddhi School	1)Mast Aryan Rajkumar Sharma	2 <sup>nd</sup>
		2)Miss Shrutika Sachin Kumbhar	
3.	SCIENCE PROJECT		
i	Dr. K .B . Hedgewar H /S	1) Mast Adhish .M . Sawant Dessai 2) Mast Aayush .R .Nadkarni	1 <sup>st</sup>
ii	Sarvodaya Education Society’s High School , Curchorem	1)Mast Nilay S Prabhu Velguencar 2) Mast Bhavesh K Kankonkar	2 <sup>nd</sup>
4.SCIENCE EXPERIMENT			
i	New Educational Institute , Curchorem	1)Miss ShreyaLaad 2) Miss RadhaKakodkar	1 <sup>st</sup>
ii	Vidhya Vruddhi School	1)AnaravSushilParihar 2)Mehek Bharat Malviya	2 <sup>nd</sup>
5.	Science Puzzle		

i	Vidhya Vruddhi School	1)Miss KasturiMahendraChowdhar 2) Miss ShainaKishor Naik	1 <sup>st</sup>
ii	New Educational Institute , Curchorem	1) Mast Shiven .Y .Karmal 2) Mast AtharvKakodkar	2 <sup>nd</sup>
6	Science Quiz		
i	New Educational Institute , Curchorem	1)Miss Mast Vignesh Samant 2) Miss AnushkaSankordekar	1 <sup>st</sup>
ii	School Of Symbiosis	1)Miss Niha Damodar Naik 2) Miss BijayalaxmiSangram Das	2 <sup>nd</sup>

Glimpses of the Event



Garlanding of Sir C.V. Raman at the hands of Chief Guest, Shri. Arvind Saran.



## Students' Participating at Solution Design Event



Students of Symbiosis School with Certificates of Participation



Prize of Sir C.V. Raman Rolling Trophy at the Hands of Shri. Subhash Shirodkar, Chairman, Task Force, National Education Policy, Goa.

## 12) Children's Rights In Goa, Alto Porvorim, Bardez, Goa

### State Level Science Fair and Felicitation

**Organised by CRG, in collaboration with Action Aid and Siemens ltd.**

**Catalysed by DST, NSCTC, GSCST**

**Venue partner: SCERT Goa**

**Transport partner: KTCL Goa**

Children's Rights in Goa organized a State Level Science Fair Event under Project *Jigyasa* on 09 February 2022, at SCERT (State Council of Educational Research and Training Centre) Porvorim-Goa. The theme of the Science Fair was, 'Integrated Approach in Science and Technology for a sustainable future'.

The program was conducted in two parts in 10 *Jigyasa* schools (List of schools with location attached below).

The preliminary stage of the program was conducted in their respective schools. Registrations were done online through google forms. A total of 92 registrations were received. After the preliminary selections, 22 entries were shortlisted for the final event. The preliminary selections were spanned from 18<sup>th</sup> -25<sup>th</sup> February.

The final competition of the shortlisted 22 participants was held on 09 February 2022. The event was conducted in a hybrid mode. Participants and judges joined us both, in **online** and **offline** mode. This was done to ensure less crowding and proper facilitation of prescribed covid 19 guidelines. Transport was also provided to students, teachers and guardians to minimize the risk of contracting covid 19 through public transport.

The program was commenced by welcoming the students, teachers and the judges. Students from various schools and different standards (Class 7-10<sup>th</sup>) displayed exemplary and innovative projects that had sustainable solution for the future. The projects displayed were in-par of the theme provided by Directorate of Science and Technology for Science Day, 2022.

The judges of the competition were experts and consultants from SIEMENS Pvt. Ltd. Residents of Goa and engineers by profession; they guided and advised the children over and above conducting their duties as judges.



Prior the competition the students were given instruction and were allotted 4minutes to deliver the presentation. The competition was Judged in an online mode on the basis of following Criteria

- ✧ concept
- ✧ creative ability
- ✧ scientific thought
- ✧ thoroughness about the selected project
- ✧ Technical skills and Presentation.

After completion of judging, the marks were tallied and the winners were announced accordingly. (Enclosed list below of the winners).

To celebrate the achievements of the winners and the participants, a felicitation event was followed by the competition. This event included winners of the All-Goa Science Photo Booth Competition as well as the winners of State Level Science Fair. The event was graced by the director of SCERT Mr. Nagaraj Honnekeri.

Mr. Nagaraj Honnekeri has always been very supportive of Project Jigyasa, and was delighted to join us in the function. He appreciated and congratulated all the students for their efforts and asked them to continue their journey of curiosity with even more vigour and dedication.

The program began at 10am and was concluded by 2pm. Post which, all the participants and attendees were proceeded to lunch. The program was successfully concluded by a vote of thanks.

#### GENERAL INSIGHT AND PROGRAM SUCCESS:

The overall motive of the program was to redefine educational pedagogy with a focus on building a scientific temper to enable critical thinking. The projects displayed for the science fair throughout were sustainable solutions to ongoing problems in their every day life. They used clean and green energy to demonstrate their working models. Almost 80% of the projects demonstrated had harnessed solar energy using portable solar panels and rechargeable batteries. The moto as well as the theme of the science fair was to aim a responsible approach using science and technology for a sustainable future, which was very well achieved. Students used their basic knowledge and understanding to study a problem. Studied the science behind it to identify the main issues and then integrated technical know-how to come up with sustainable technology for the future.

## ALL GOA SCIENCE PHOTOBOOTH COMPETITION

The All Goa Science Photobooth competition was conducted for schools all over Goa, to encourage learning through fun. The main aim of the event was to create curiosity and learning through an otherwise unconventional method of learning and research; A Scientific Photobooth.

The competition was announced on Children's Rights in Goa (C.R.G) Facebook and Instagram handles. Invites for entries were also sent through emails, taluka-wise. A google form was circulated for the registration of the event.

CRG received over 350 registrations. A total of 223 entries were received in individual and pair submissions. (List attached below)

Entries received were divided into two categories; Senior category (8-10<sup>th</sup> std.) and Junior category (5-7<sup>th</sup> std.)

The panel of judges included two judges. One of the judges, Mr. Raymond Pereira is an Arts and Aesthetics Pedagogy Professor at Nirmala Institute of Education. The second judge, Mr. Rudstan Simon Fernandes is a biotechnologist as well as an artist that has presented his work at various art exhibitions at the state and national level.

As a part of their entries, students were asked to submit one photograph, one GIF and a small writeup on their scientific ideas. The uploading was done online through google form. The folders were the provided for access to the judges so that they could judge and assign marks accordingly.

A total of 08 winners were shortlisted. 3 students in the junior category and 5 students in the Senior category. (List of winners attached below)

An online felicitation ceremony was organized through google meet to announce the winners. The chief guest of the function was Mr. Prasad Pankar, a well known and reputed photographer. He is the proprietor and mentor at CYMK professional institute of photography and has an endless fame of a celebrity, fashion and food photographer, the list of achievements not being limited to only these genres, only.

Mr. Pankar, not only graced the function as a chief guest but as a mentor who encouraged students to ask question related to photography, career choices and equipment related to queries. Even when he received questions about his personal life, he did not hesitate from responding to the children.

The winners of the photobooth competition were then invited to join in an offline felicitation ceremony organized on the day of STATE LEVEL SCIENCE FAIR. They received awards at the hands of Mr. Nagaraj Honnekeri, Director, SCERT- Porvorim Goa.

Students were rewarded with a cash prize (cross-cheque) and trophies for the same. (List of rewards and cash prize attached below).

## GENERAL INSIGHT AND PROGRAM SUCCESS:

Science photo-booth is an innovative and modern way to deliver ideas using online and offline modes of communication. The booth helped focus on communication for STEAM in a creative yet, scientific way. The competition helped students generate innovative ideas and enjoy STEAM as a curriculum without having to put any compulsion on learning.



