

National Mathematics Day-2020, Celebrated by GSCST, Saligao, Goa.

The Goa State Council for Science and Technology (GSCST) celebrated (observed) Mathematics day on 22/12/2020 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 2020 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. 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 mathematician Srinivas Ramanujan. To give respect and tribute to a great Mathematician's Srinivas Ramanujan the programme begins with by offering garlands to his photos from the hands of GSCST Member Secretary, Prof. Pradeep Morajkar and other participants offered a flower.

On this occasion a State Level competition on "Power point presentation highlighting contribution of Indian Mathematicians was organized for the participating school students from Goa. The Schools have been requested to prepare the video and send to our office by email. Accordingly 37 Videos from various schools of Goa have been received to this office. The evaluator was invited to this office and finalized the best 7 Power point presentation.

The following schools were presented their PPT

Sr. No.	Name of the participants		Name of the School
1.	Teacher	Mrs. Rujuta A. Manerikar	Ideal High School, Pilgao, Bicholim, Goa.
	Student	Mast. Soham S. Patkar	
	Student	Mast. Gaurang P. Khanolkar	
2.	Teacher	Apurva Fernandes	Rosary High School, Navelim, Salcete, Goa
	Student	Mast. Aniket Naik	
	Student	Mast. Xec Shoaib	
3.	Teacher	Mr. Bhagwan B. Gawde	V.D. & S. V. Wagle H.S., Mangeshi, Ponda, Goa.
	Student	Miss. Haneesha H. Pillai	
	Student	Miss. Ankita R. Mishra	

4.	Teacher	Miss Anita Karumanchi	Anjuman Himayatul Islam High School, Baina, Vasco.
	Student	Miss. Manju Yadav	
	Student	Mast. Sourav Seth	
5.	Teacher	Christler Dias	St. Thomas High School, Cansaulim, Mormugao
	Student	Samuel Placido Barretto	
	Student	Avison Daniel D'Souza	
6.	Teacher	Ms. Ashryl A. Mascarenhas	Our Lady Mother of the Poor High School, Tilamol, Quepem, Goa
	Student	Mast. Sarvesh R. Naik	
	Student	Tisha Pearly Viegas	
7.	Teacher	Priyanka Naik	Perpetual Succour Convent High School, Navelim, Salcete, Goa.
	Student	Scarlett Esther Fernandes	
	Student	Manvi U. Gaonkar	
8.	Teacher	Krupa Dessai	Pope John XXIII High School, Quepem, Salcete, Goa.
	Student	Dorely Adrial Rodrigues	
	Student	Jovita Martha Martins	
9.	Teacher	Mrs. Celine Fernandes	St. Anne's Institute, Agonda, Canacona, Goa.
	Student	Ms. Astrid Fernandes	
	Student	Ms. Shreya Dhuri	
10.	Teacher	Mrs. Gauri R. Pai Raikar	A. J. de. Almeida High School, Ponda, Goa.
	Student	Anandi R. Kakodkar	
	Student	Sneha Nagraj Shetty	
11.	Teacher	Sarojini Natasha Lily Dias	M.I.B. K. High School, Khandepar, Ponda, Goa.
	Student	Khushi G. Shet Tilve	
	Student	Gauri Goapal Mallik	
12.	Teacher	Mrs. Sherly George	St. John of the Cross High School, Sanquelim, Bicholim, Goa.
	Student	Mast. Shaan Shaikh	
	Student	Mast. Sehab Beig	
13.	Teacher	Mr. Shekhar Y. Sawant	Mahila and Nutan English High School, Margao, Salcete, Goa.
	Student	Manjiri M. Pai Duple	
	Student	Durva P. Shanbhag	
14.	Teacher	Raghunath S. Sawant	Mandre High School, Mandre, Pernem, Goa.
	Student	Rehan Harmalkar	
	Student	Saloni Raut	
15.	Teacher	Mrs. Soniya M. Charate	Our Lady of Grace High School, Bicholim
	Student	Kinjavdekar S. Deepak	
	Student	Tanvi Surlikar	
16.	Teacher	Grizella D'Souza	St. Cruz High School, St. Cruz
	Student	Sameer Khan	
	Student	Manish Sahu	
17.	Teacher	Jasween Ara Guha	G.S. Amonkar Vidya Mandir, Mapusa
	Student	Vibhav Bilgoji	
	Student	Sushubh Cost Periea	
18.	Teacher	Mr. Prashant Dessai	St. Threza of Jesus High School, Canacona
	Student	Mast. Sinoi Coutinho	
	Student	Miss. Shayana Mirashi	

19.	Teacher	Mr. Saish Sawant	Keerti Vidyalaya, Siolim, Bardez, Goa.
	Student	Samiksha Kole	
	Student	Sejal Kole	
20.	Teacher	Mr. Vishwesh Fatrekar	Mahalaxmi High School, Kudne, Bicholim
	Student	Lakshita Malik	
	Student	Sanvi Mandrekar	
21.	Teacher	Mrs. Roopa Gauns Dessai	Shri. Shradhanand Vidyalaya, Paingin, Canacona.
	Student	Mast. Prathmesh P. Dessai	
	Student	Miss. Kashish Naik	
22.	Teacher	Mrs. Premalata Rathod	Vidhya Vihar High School, Thana, Cortalim
	Student	Volney Silveria	
	Student	Tanish N. Pednekar	
23.	Teacher	Miss. Ruchira Xavier	St. Anne's High School, Quellossim, Mormugao
	Student	Miss. Alica Colaco	
	Student	Miss. Siyona Serrao	
24..	Teacher	Mrs. Milan Milind Patil	Dr. K.B. Hedgewar Vidyamandir, Karapur, Sankahlim, Bicholim.
	Student	Omkar B. Kamal	
	Student	Saransh S. Prabhu Porob	
25.	Teacher	Mrs. Krupa A. Gadgil	Shri Saraswati High School, Juve, Tiswadi.
	Student	Mast. Pravin P. Kamat	
	Student	Miss. Nirjara U. Turi	
26.	Teacher	Mrs. Gauri Vivek Joshi	Shri. Shantadurga High School, Bicholim,
	Student	Mast. Nadish S. Sawant	
	Student	Mast. Om R. Shetkar	
27.	Teacher	Mrs. Valerie E.C.F. Vales	Our Lady of Perpetual Succour High School, Cortalim, Mormugao
	Student	Kush tuenkar	
	Student	Ivan Baretto	
28..	Teacher	Mrs. Danashree Subhaji	Harmal Panchkroshi High School, Harmal, Pernem, Goa.
	Student	Hrilekha Hemant Naik	
	Student	Shaunak Mashesh Pai	
29..	Teacher	Mr. Dayanand Gawas	St. Brito High School, Mapusa.
	Student	Aaryan A. Arolkar	
	Student	Sparsh Prashant Naik	
30.	Teacher	Makarand Tilve	Govt. High School, Savoiverem, Ponda.
	Student	Miss. Riya R. Madekar	
	Student	Miss. Nishita Y. Palkar	
31.	Teacher	Samreen	Unity High School, Valpoi, Sattari.
	Student	Arika Khan	
	Student	Maryiam Shaikh	
32.	Teacher	Ms. Krutika Satyavan	Poirra High School, Poirra, Bicholim.
	Student	Mast. Tejas S. Mayekar	
	Student	Mast. BVhaskar R. Sutar	
33.	Teacher	Mr. Nanda Majik	Govt. High School, Pissurlem, Sattari
	Student	Miss. Diti Gaude	
	Student	Shubham S. Gawde	

34.	Teacher	Mrs. Vanitha Squeira	Fr. Agnel High School, Pilar, Tiswadi
	Student	Mast. Royston Gracias	
	Student	Mast. Prithik Jose Fernandes	
35.	Teacher	Neha Sawal	Vikas High School, Valpe, Virnoda, Pernem.
	Student	Aishwarya Malpekar	
	Student	Anushka Malpekar	
36.	Teacher	Mr. Shamsundar Naik	St. Michael's Convent High School, Anjunem, Bardez, Goa.
	Student	Miss. Pearl Fernandes	
	Student	Miss. Riva Fernandes	
37.	Teacher	Akash Salgaonkar	Chubby Cheeks Spring Valley High School, Pilerne
	Student	Ojaswa Naik	
	Student	Sankarsh Nagvekar	

The result of the said competition is as under: -

Based on their participation seven best presentations shortlisted by the judges were honoured with prizes.

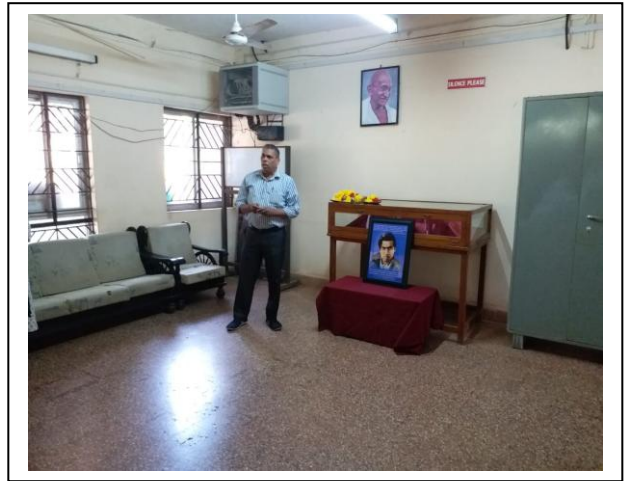
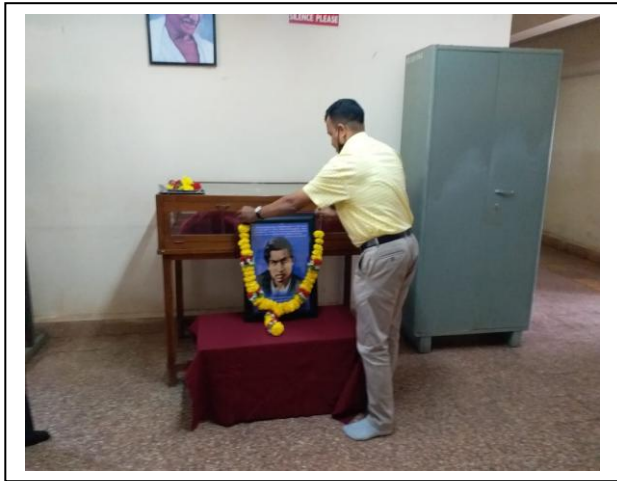
Prizes:

1st Prize	Miss. Hrilekha Hemant Naik & Mast. Shaunak Mashesh Pai Harmal Panchkroshi High School, Harmal, Pernem, Goa.
2nd Prize	Miss. Anandi R. Kakodkar & Miss. Sneha Nagraj Shetty A. J. de. Almeida High School, Ponda, Goa.
3rd Prize	Mast. Prathmesh P. Dessai & Kashish M. Naik Shri Shradhanand Vidyalaya, Paingin, Canacona.

Consolation prizes

1st Consolation	Miss. Scarlett Esther Fernandes & Manvi U. Gaonkar Perpetual Succour Convent High School, Navelim, Salcete - Goa.
2nd Consolation	Mast. Sarvesh R. Naik & Tisha Pearly Viegas Our Lady Mother of Poor High School, Tilamol, Sheldem, Quepem - Goa.
3rd Consolation	Miss. Khushi G. Shet Tilve & Miss. Gauri Gopal Mallik M.I.B.K. High School, Khandepar, Ponda - Goa.
4th Consolation	Mast. Vibhav Bilgoji & Sushubh Cost Pereira G.S. Amonkar Vidya Mandir, Mapusa - Goa

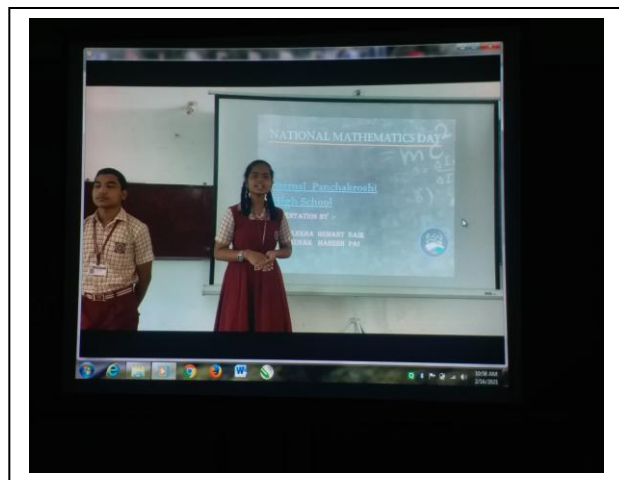
Mr. Mahabal N. Bhat and Mr. Shivaji Gaonkar from St. Xavier Higher Secondary School, Mapusa, Goa.were the judges.

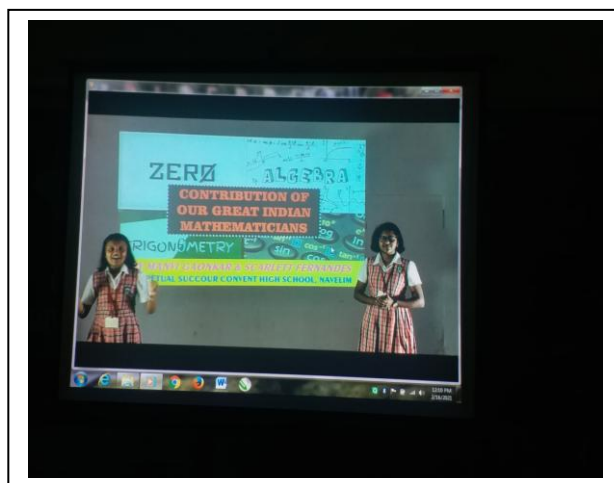
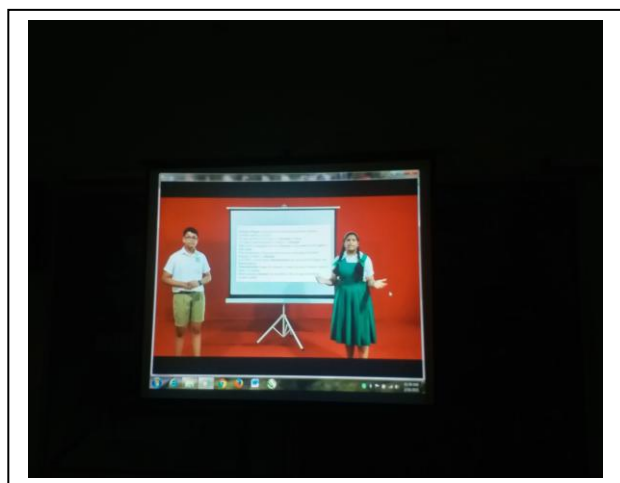


Garlanding the portrait of Sir. Shrinivas Ramanujan and highlighting the importance



GSCST and GSBB officials during the celebration of NMD





Students presenting their PPT



Prize winning students along with
Chief Guest and Officials



Participants attending the valedictory
function

At the valedictory programme prizes and participation certificates were awarded at the hands of Chief Guest Dr. I.K.Pai, Ex. Professor and Head of the Department Zoology, Goa University, Talegao, Shri. Pradeep Morajkar, Member Secretary, GSCST, and Shri Naguesh Sardessai, Sr. Teacher, People's Hr. Secondary School, Mala Panaji. Shri. Francisco Lucas compared the programme and proposed vote of thanks, Shri. Pradeep Morajkar, Member Secretary, GSCST, welcome the gathering and Mr. Sanjeev Chodankar, declared the prizes.

The other Institutions celebrated Mathematics Day-2020 and their report is as under: -

1) Vikas High School, Virnoda –Pernem, Goa

Observance of National Mathematics Day was celebrated on 5th February 2021 at Vikas High School, Valpe Pernem Goa in association with GOA STATE COUNCIL OF SCIENCE AND TECHNOLOGY, SALIGAO, CATALYSED AND SUPPORTED BY NATIONAL COUNCIL FOR SCIENCE AND TECHNOLOGY COMMUNICATION DST, GOVT. OF INDIA, NEW - DELHI in memory of India's great mathematician Dr. Shrinivas Ramanujan. On this occasion the inaugural session graced by the chief guest.

The day was celebrated with objective of creating awareness of about importance of mathematics in day to day life situation and also to create student interest in studying the mathematics.

The inaugural session was graced by the Chief Guest Mrs. Kirtimala Naik ,Vice Principal of Govt. Higher Secondary Pernem . Guest of Honor Prof. Joaquim Conceicao of Govt. Higher Secondary Pernem in the presence of Chairman of Virnoda Education Society, Shri Krishnanath Parab, Headmaster of Vikas High School Shri Nagesh Gosavi, Parent Teacher Association President Shri Ulhas Deulkar and Teacher Representative Shri Ratnakr Rao of Vikas High School.

The program started with the prayer and then a welcome song sung by the music group of Vikas High School. Headmaster of Vikas High School welcomed the dignitaries by introducing and distributing saplings.



Speaking on the occasion, Honorable Guest Prof. Joaquim Conceicao said that everything has an equation. Mathematics has been a subject since Vedic times . He also said that mathematician like Ramanujan were born in this land of India and we are proud of him.

Number 1 to 09 are constantly revolving around us. Mathematics has found time since Aryabhatta invented zero in the sixth century. The subject of mathematics said that most of the children are scared, so don't be afraid. Mathematics stimulate your intellect shri Krishnanath Parab, the Chairman of the institute inspired the students to look at it as an easy subject.

Covid-19 has cost our country's mathematics to collapse, so the Prime Minister has asked everyone to be self reliant and set a time for mathematics, said Shri Ulhas Deulkar, President of the Parent Teacher Association.

For this event 20 schools were invited. Out of which 18 schools participated. During the process of this programme various competition were organized for the invited schools in the taluka. It featured various replicas of Mathematics Model Exhibits, PowerPoint presentation, ,Essay Writing and Written Quiz Competition. The main aim of these competitions was to boost the students interest in the field of Mathematics. Details of different competitions result as under.

1) Live PowerPoint Presentation Competition:

Number of school participated =17

Theme: Contribution made by any Indian or World Mathematician and highlighting their contribution.

Sr. No	Competition	Name of the school	Name of the Participants	Place	Amount
1	Live PowerPoint presentation	Harmal Panchakroshi High School	1) Hrilekha H. Naik 2) Shaunak M. Pai	First	Rs. 1000/- & Trophy
		Viscount High School Pernem	1) Mrunakshi Mote 2) Aditi Sawaldessai	Second	Rs. 750/- & Trophy
		Kamleshwar High School Korgao	1) Asawari Shetye 2) Rinkle Ghonge	Third	Rs. 500/- & Trophy
		Vikas High SchoolValpe	1) Gunshan Malpekar 2) Saiesh Deulkar	First Consolation	Rs. 200/-
		Sateri Vidya Mandir Ibhrampur	1) Riya Naik 2) Prajal Naik	Second Consolation	Rs.200/-

2) Model Exhibit Competition

Number of school participated =15

Theme: Maths exhibit based on mathematical principles.

Sr. No	Competition	Name of the school	Name of the Participants	Place	Amount
2	Model Exhibit Competition	Mandre High School Mandre	1) Ravina Chari 2) Priti Palyekar	First	Rs. 1000/- & Trophy
		Kamleshwar High School Korgao	1) Trishay Kalshavkar 2) Suyash Harmalkar	Second	Rs. 750/- & Trophy
		Vikas High School Valpe	1) Sitaram Sawant 2) Kartik Dhawde	Third	Rs. 500/- & Trophy
		Govt. High School Dadachiwadi Dhargal	1) Swarangi Kerkar 2) Jignesh Shiroadkar	First Consolation	Rs. 200/-
		Dnyandeep Academy High School Purva	1) Anuj kanulkar 2) Siddhi Gad	Second Consolation	Rs.200/-

3) Written Quiz Competition

Number of Students participated =28

Sr. No	Competition	Name of the school	Name of the Participants	Place	Amount
3	Written Quiz Competition	Mandre High School Mandre	1) Anshika Barde	First	Rs. 1000/- & Trophy
		St. Joseph High School	1) Tanvi Shiroadkar	Second	Rs. 750/- & Trophy
		Govt. High School Agarwada	1) Dhananjay Bagli	Third	Rs. 500/- & Trophy
		Pradnya High School Devsu	1) Manali Parsekar	First Consolation	Rs. 200/-
		Mandre High School Mandre	1) Sarthak Kerkar	Second Consolation	Rs.200/-

4) Essay Writing Competition

Number of Students participated = 33

Theme: The importance of mathematics.

Sr. No	Competition	Name of the school	Name of the Participants	Place	Amount
4	Essay Writing Competition	Sateri Vidya Mandir Ibhrampur	1) Gayatri Sutar	First	Rs. 1000/- & Trophy
		Vidyaprasarak High School Morjim	1) Vinay Mandrekar	Second	Rs. 750/- & Trophy
		Viscount High School Pernem	1) Sailee Naik	Third	Rs. 500/- & Trophy
		Bhagwati High School	1) Sharmishtha Nagvekar	First Consolation	Rs. 200/-
		Ideal English High School Palye	1) Neha Malvankar	Second Consolation	Rs.200/-

Shri Narendra Naik, ADEI of Pernem taluka as the Chief Guest in the concluding section of the afternoon session. Some stories of Ramanujan's Childhood and told the teachers “ first we have to be a favourite of the students , inevitable he like the subject and the children learn more with interest.



Honourable guest Shri Sanjeev Chodankar also expressed his thoughts on how Ramanujan was a world winning mathematician. Respected Headmaster Shri Nagesh Gosavi

also graced the occasion and encouraged the students to participate in such activities in future as well. He conveyed to the audience, the shape of mathematics in this universe from time immemorial through some Sanskrit verses.

Project Co-ordinator of Goa Science and Technology Department Shri Pravin Parab and Francisco Lucas were also present on the stage. All the winning contestants and mentors were felicitated by the dignitaries with certificates, roses and mementos.



The entire program was arranged by Sir Babli Naik, hosted by Tr. Palak Karmalkar, Prize distribution by Tr. Neha Sawal and thanks giving by Tr. Reema Morudkar. Without the support, this type of programme cannot be possible. For this successful organization the role of **GOA STATE COUNCIL OF SCIENCE AND TECHNOLOGY, SALIGAO, CATALYSED AND SUPPORTED BY NATIONAL COUNCIL FOR SCIENCE AND TECHNOLOGY COMMUNICATION DST, GOVT. OF INDIA, NEW DELHI** was important on all aspects. Financially, your department has supported very well. In future, your support will be highly obliged and appreciated.

2) Dnyanprassark Mandal's College and Research Centre, Assagao, Bardez-Goa

The Department of Mathematics and Statistics of Dnyanprassark Mandal's College and Research Centre observed National Mathematics Day from 18th to 20th February 2021. Various events and competitions were conducted at higher secondary, college, and

inter-collegiate levels. The programme was Catalysed & 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.

Day 1: On 18th Feb 2021 marked the beginning of the celebration with college-level inter-class PowerPoint presentation competition on 'Mathematical Modelling'. The competition was judged by Mr. Dinanath Volvoikar, Assistant Professor, Department of Mathematics, and Mr. Sarvesh Gawas, Assistant Professor, Department of Mathematics of our college. Total 5 teams participated in the competition. Participants were judged based on the video presentation, offline presentation, and question-answer session.

Winners of the competition:

First place: Ms. Saloni Shet Mandrekar and Ms. Manshi Kumari Singh, SY B.Sc. A

Second place: Ms. Anjali Zambaulikar and Ms. Swejal Kalangutkar, SY B.Sc. B

Third place: Ms. Laxmi Chawan, FY B.Sc. A



**Inter-class PowerPoint presentation competition on
'Mathematical Modelling' on 18.02.2021**

On 18th February 2021 at 6:00 pm one more competition was conducted for higher secondary students. Online Quiz competition on "Quantitative Aptitude and Logical Reasoning" was conducted for higher secondary students. 32 students participated in the competition.

Winners of the competition:

First place: Ms. Gilafsha Ilias Khan, SV's Purushottam Walawalkar Higher Secondary School, Mapusa

Second place: Ms. Sharvani Shamsundar Kambli, SV's Purushottam Walawalkar Higher Secondary School, Mapusa

Three participants shared the third prize:

1. Ms. Isha Jamluraj Lotlikar, SV's Purushottam Walawalkar Higher Secondary School, Mapusa.
2. Mr. Rudresh Vikas Arabekar, SV's Purushottam Walawalkar Higher Secondary School, Mapusa
3. Mr. Tejas Chandrahas Dabholkar, DM's PVS Sarojini Madhusudan Kushe Higher Secondary School, Mapusa.

Day 2: Inter-collegiate online PowerPoint presentation competition on “Mathematical Modelling” was held on 19th February 2021. Dr. Prabal Paul, Assistant Professor, Department of Mathematics, Birla Institute of Technology and Sciences, K. K. Birla Goa campus, Dr. Jessica Fernandes e Pereira, Assistant Professor, School of Physical and Applied Sciences, Goa University, Ms.Ujwala Phadke, Associate Professor, Department of Science and Humanities, Goa Engineering College and Mr. S. Antony Selvaraj, Assistant Professor, Department of Basic Sciences and Humanities, Agnel Institute of Technology and Design, Assagao, Bardez, Goa were the judges of the competition. Dr. Suchita Golatcar, Head Department of Mathematics and Statistics introduced the judges. 5 teams from 3 different Colleges in Goa participated in the competition. The judging criteria were based on the video presentation, online presentation, and responses to the questions asked by the judges.

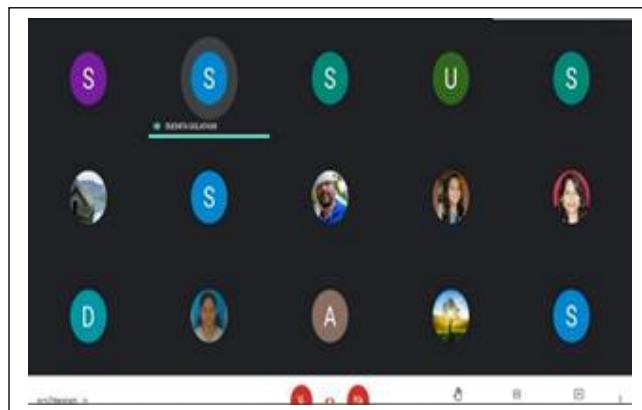
Winners of inter-collegiate PowerPoint competition:

First Prize: Ms. Anjali Zambaulikar and Ms. Swejal Kalangutkar, (Dnyanprassarak Mandal's College and Research Centre, Assagao Goa.)

Second prize: Ms. Maria Dancho and Ms. Vedika Bharatesh Ghulannavar, Government College of Arts, Science and Commerce, Sanquelim, Goa

Third prize: Mr. Shubham Suresh Gawas and Mr. Sukhadev Hariram Yadav, Government College of Arts, Science and Commerce, Sanquelim, Goa.

At the end of the programme Mr. Sarvesh Gawas, Assistant Professor, Department of Mathematics and Statistics proposed vote of thanks. The entire programme was compered by our student Ms. Divya Parab from F.Y.B.Com. C.



Inter-collegiate online PowerPoint presentation competition on “Mathematical Modelling” on 19.02. 2021

Day 3: On 20th February 2021, two competitions were held. In the morning session, a college-level Poster competition was held on the topic ‘Geometric Design’. Ms. Shruti Dangui, Assistant professor, Department of Computer Application, and Mr. Dinanath Volvoikar, Assistant professor, Department of Mathematics and Statistics judged the competition. Total 5 teams participated in the competition. The judging criteria were based on the content of the poster, presentation, and responses to the questions asked by the judges.

Winners of the competition:

First place: Ms. Saloni Shet Mandrekar and Ms. Manshi Kumari Singh, SY B.Sc. A

Second place: Ms. Divya Parab and Ms. Divya Hirve, FY B.Com. C

Third place: Ms. Nikita Dhupdale and Ms. Sindita Vazarkar, FY B.Com. C



Interclass poster competition on 'Geometric design' on 20.02.2021

A college-level online Quiz competition was held at 5:00 pm. The Quiz was on 'Competitive Mathematics' 33 students participated in the competition.

Winners of the competition:

First place: Mr. Sahil Datta Gosavi, TY B.Sc. A

Second place: Ms. Valencia Dsouza, FY B.Com. D

Third place is shared by:

1. Mr. Mohammed Sahil Khattal, FY B.C.A and
2. Mr. Gautam Shirodkar, FY B.Sc. B

Students had a great learning experience. The activities conducted, stimulated student's minds and helped them to increase their confidence, enhance creativity, logical thinking, and presenting skills. Indeed, the event was a great success.

3) Perpetual Succour Convent High School, Navelim, Salcete – Goa

Perpetual Succour Convent High School, Navelim in association with Goa State Council for Science and Technology, Saligao, Goa organized 'MATHLETE 2021' on 20 January, 2021 for all the students of the school, as a part of Math day celebration in our school. The event was catalyzed and supported by the National Council for Science and Technology Communication (NCSTC), DST, Government of India, New Delhi. The event aimed at bringing elements of fun, excitement and creativity through the spirit of competition in the subject of Mathematics.



The preparation for the event beginning advance with the following activities marked for the different classes:

CLASS	ACTIVITY	TOPIC
I-IV	Model	Creativemodels
V	PosterCompetition	Mathematicsis <i>everywhere</i>
VI –VII	Pebble PaintingCompetiti on	Mathematics iseverywhere
VIII–IX	Exhibit(Model)	Mathematics iseverywhere
IX	PowerPointPre sentation	Mathematics iseverywhere
V–X	AchieversTest	Math+Mentalability
VII –VIII	QUIZ	Math+Mentalability

All the above activities (except the quiz) were held before the Mathday. Achievers test was conducted in two levels. In the first level, the students answered an online test via google form. From the first level, six finalists were shortlisted, based on their score for level 1, from each class. In the second level, the selected students answered a written test in the school, to get the first three achievers in each class.

The first four students, from the achievers written test, of class VII and class VIII, were for med into four teams for the quiz. The first scorer of VIII was paired with the fourth scorer of VII. The remaining three teams were formed in a similar manner. The teams prepared themselves well for the grand finale on the Mathday.

Models and Posters



Math day at PSC began with a short prayer service, invoking God's blessings on all. The event was duly compered by our students, under the able guidance of our teachers, Mrs Andrea D'Costa and Miss Saviola Vaz. First and foremost, the portrait of our great mathematician, Srinivas Ramanujan was garlanded at the hands of our headmistress, Rev. Sr Liberata Fernandes.

The highlight of the day was the QUIZ comprising of five rounds namely:

1. Activity Round
2. Conceptual Knowledge Round
3. Choice Round
3. Rapid Fire Round
4. Buzzer Round

Four teams, namely Alpha, Beta, Gamma and Delta participated in the quiz with lot of zeal and enthusiasm. **Alpha** team was declared as WINNERS and **Gamma** team settled for the RUNNER'S -UP spot. The quiz was ably conducted by our very own competent Mathematics teacher Mr Tadeu Dias. The event also highlighted the prize winning entries by way of display and performance.

An informative session was organized for our students on the day, based on the topic, "Tips in Mathematics". It was beautifully presented by our guest speaker, Mr Shamsundar Naik, Mathematics teacher from St Michael's Convent High School, Anjuna.

The Chief Guest for the day was Mr Shailesh Zingde, Deputy Director of Education (South Education Zone) and guests of honour were Mr Shamsundar Naik and Ms Brenda Fernandes, Project Scientist (GSCST, Saligao- Goa).

The guests were accorded a warm welcome by our school band with their powerful and energizing music. This was followed by the singing of the National Anthem, igniting the flames of patriotism. The Chief Guest was introduced by Tr Rochelle D'Silva and the guests of honour were introduced by Tr Carol Dias. Floral tributes were given to all the dignitaries present. Light dispels darkness, this was signified by the lighting of brass lamp at the hands of all the dignitaries. The assembly was then led into a prayerful atmosphere by a prayer dance performed by our talented students, who dance gracefully to the soothing music. The dance was choreographed by our artistic teacher, Mrs Sinthiya Mhamal.

Math day logo was created and designed by our dynamic Mathematics teacher, Mr Tadeu Dias. Math day lamp, based on the logo, was artistically and skillfully created by our very competent art teacher, Mr George Gonsalves, which had the cycle wheels in motion, capturing everyone's attention. The Chief Guest lit the lamp and declared the Math Day open. The moment of celebration was marked with the singing of the theme song by the melodious voices of our school. The music for the song was composed by our proficient music teacher, Mr Seby Fernandes and the lyrics were written by our talented teacher, Miss Winnie Joanes.

Our Headmistress welcomed the gathering with her captivating speech, according a warm welcome and appreciation to all the invitees. She further explained the significance of the logo. The Math day logo symbolizes that Mathematics is everywhere, effecting development and we must ensure that progress made is eco-friendly.

The quiz final round, the buzzer round, was then held, declaring the winners of the quiz as mentioned earlier. This was followed by the report of activities conducted by way of a power point presentation by our experienced and gifted teacher, Mrs Joan Gracias. After that, the Chief Guest addressed the audience with an absorbing speech, with as light touch of humour, which was enough to grab all the attention. This was followed by the prize distribution of all the winners. The Chief Guest and the guests of honour were offered mementos as a token of love and appreciation.



WINNERS OF VARIOUS COMPETITIONS

***MODEL (CLASS1-4)**

Class I

1. Samarth Divakar (IC)
2. Joshua AD'Silva (IA)
3. Wilfun Fernandes (IB)

Class II

1. Reece Colaco (IIB)
2. Vansh R Dhiman (IID)
3. Xalora Gomes (IIA)
4. Aaliya Doddamani (IIC)

Class III

1. Claire F Rodrigues (IIIC)
2. Jesiah De Souza (IIIA)
3. Valentina Vaz (IIIB)

Class IV

1. Khadira Doddamani (IVA)
2. Smyan Khan (IVB)
3. Avni B Amonkar (IVC)

✱ **POSTER (CLASS V)**

CLASS V

1. Swara S Naik (VC)
2. Joseph Diniz (VC)
3. Cienna Pires (VB)

✱ **PEBBLE PAINTING (CLASS 6-7)**

Class VI

1. Aloshtexeira (VIC)
2. Caelan Fernandes(VIC)
3. Nubia khan (VIB)

Class VII

1. Racheal D'costa(VIIB)
2. Lynsey Coutinho(VIID)
3. Staren Vaz(VIIB)

✱ **MODEL (CLASS 8-9)**

CLASSVIII

1. Shane Fernandes(VIIIC)
2. Ashvel Moniz(VIIIA)
3. Amrita Vernekar(VIIIA)

CLASSIX

1. Shravani Raikar(IXB)
2. Ekvira Chari(IXA)
3. Scarlett Fernandes(IXC)

✱ **POWERPOINT PRESENTATION (CLASS9)**

CLASSIX

1. Scarlett Fernandes(IXC)
2. Canelli D'costa(IXC)
3. Joyslee Carneiro(IXA)

***MATH ACHIEVERS TEST(CLASS 5-10)**

Class V

1. Joseph Diniz (VC)
2. Roniston DaSilva (VB)
3. Lyra Cabral(VC)

ClassVI

1. Swayam Komarpant (VIC)
2. Reyhan Dias(VI B)
3. Aaron Pinto(VID)and Aatirl namdar (VID)

ClassVII

1. ShubanyVaz(VII D)
2. Mitchell Niasso(VIID)
3. Reuben Barretto(VIID)and
Bryson Pires (VIIC)

ClassVIII

1. AmritaVernekar(VIIIA)
2. Venus Fernandes(VIIIA)
3. Samuel D'costa(VIIIC)

ClassIX

1. Scarlett Fernandes(IXC)
2. Akeisha Viegas(IXB)
3. Piyush Tiwari(IXB)

Class X

1. Nathan Diniz(XD)
2. Rowena Faleiro(XB)
3. Preston D'silva(XC)

***MATHQUIZ**

WINNERS

TeamAlpha

1. Seen Sayyad(VIIIC)
2. Shubany Vaz(VIID)

RUNNERS-UP

TeamGamma

1. Venus Fernandes(VIIIA)
2. Reuben Barretto(VIID)

At the successful end of the event, the coordinator of the event, Mrs Sheila Fernandes, proposed the vote of thanks, with a heart full of gratitude , thanking each

and everyone involved in making the day a big success. The School Anthem was then sung with pride, marking the end of the event. All the invited guests, staff and students were served snacks and drinks.



4) Vidya Prabodhini Higher Secondary School, Vidyanagar, Porvorim, Bardez, Goa

National mathematics day celebration 2020- 21:

Vidya prabodhini Higher Secondary School Vidya Nagar Porvorim Goa celebrated National mathematics day on 5th March 2021 catalysed and supported by National Council for Science and Technology Communication (NCSTC), DST, Government of India, New Delhi. To mark this day the school organized several activities as under:

- 1) Online seminar on vedic mathematics for teachers and students of Goa
- 2) Working model making competition for the students of standard 8th to 10th
- 3) Quiz competition for standard XI and XII.
- 4) PowerPoint presentation (ppt) competition for standard 11th and 12th on contributions of Indian mathematicians in ancient times.
- 5) Prize Distribution Ceremony.

Details of activities conducted

Online Vedic seminar for teachers and students:

- 1) First session of online Vedic seminar for teachers and students to mark the celebration of national mathematics day, Dr. Narendra Joshi Faculty and project director at Vivekanand Prabodhini and SACAR Pondicherry delivered a lecture on the topic 'Vedic and ancient Indian mathematics on Monday 1st March 2021.
- 2) Second session was conducted by Dr Anuradha S. Garge Assistant professor department of mathematics Kalina campus University of Mumbai on the topic Bar-Bar mathematics in barcode, cheques and books on Tuesday 2nd March 2021.

3) Third session was conducted by Dr. Vitthal sukhtankar faculty Goa Institute of Management Sankhalim Goa on the topic vedic mathematics and competitive exams on Wednesday, 3rd March 2021.

All the sessions were conducted through google meet and mathematics lovers from Goa and Maharashtra attended the sessions everyday at 5 p.m. The sessions began with attendance of more than 90 participants everyday .The teachers of the school contributed by introducing the guests , by proposing vote of thanks and by declaring the results of various competitions during these sessions.

Working model making competition for the students of standard VIII to X.

This competition was organised for the schools of bardez taluka only. Total 9 schools participated in the competition

Following are the prizes won by the participants:-

First place :

1)Shreyash Parab	Keerti Vidyalaya Siolim Goa.
2)Raounak Parab	
Prize worth Rs.2000/- and trophy	

Second Place :

1)Aman Naik	Assagao Union High School,Assgao Goa
2)Vansh Govekar	
Prize worth Rs.1,500/- and trophy	

Third Place:

1)Sambhaji Patil	L.D.Samant Memorial High School, Porvorim Goa
2)Nishant Kole	
Prize worth Rs.1,200/- and trophy	

Fourth Place :

1)Sanjana Singh	Keerti Vidyalaya,Siolim Goa
2)Sejal Kale	
Prize Worth Rs.1000/- and trophy	

Fifth Place:

1)Tanya Vinay Chopdekar	Dnyanprasarak Vidyalaya mapusa Goa
2)Naysa .S.Dhavle	
Prize worth Rs.800/- and trophy	

Five Consolation prizes of Rs. 500/- each.

1)Ashleen C. Fernandes	St.Michael's Convent High School,Anjuna
2)Gayatri Chopdekar	Dayanand Bandodkar Memorial High School Verem Goa
3)1)Shahid Daddikar	Sacred Heart High School Verla Parra
2)Prabhavati Chitage	Sacred Heart High School Verla Parra
4)Laxmi Telagaon	Dayanand Bandodkar Memorial High School,Verem
5)Kimberley D'souza	St.Michael's Convent High School Anjuna

Powerpoint presentation competition (online):

This competition was conducted for the students of standard XI & XII from all over Goa and the topic was **contributions of Indian mathematicians in ancient times**. Altogether 9 higher secondary schools participated. Total 18 ppts were submitted.

Following are the prize winners.

First place:

1)Tanvi Verlekar	M.E.S Higher Secondary Zuarinagar
2)Sahil Sayed	
Prize worth Rs.2000/- and trophy	

Second Place:

1)Siddhivinayak hadapad	Infant Jesus Higher Secondary School, Colva
2)Jesline Agnetra Fernandes	
Prize worth Rs.1500/- and trophy	

Third Place:-

1) Siddharth Prabhugaonkar	S.S.Angle Higher Secondary School, Mashem, Cancona goa.
2)Udit chari	
Prize worth Rs. 1200/- and trophy	

Fourth place:-

1)Aliya Shaikh	Vidya Prabodhini Higher Secondary School, Porvorim goa
2)Anisha Savlekar	
Prize worth Rs.1000/- and trophy	

Fifth Place:-

1)Samarth Ravindra Kamat	Saraswat Vidyalaya's Purushottam Walawalkar Higher Secondary School,Khorli,Mapusa Goa
2)Pralesch Mane	
Prize worth 800/- and a trophy	

Five Consolation Prizes Rs.500/- each

1)Simran Afraj Bepari	Our lady of the Rosary Higher Secondary School, Dona Paula Goa
2)Sheetha Kerani	
3)Brenden Noronha	St.Francis Xavier's Higher Secondary School, Siolim Goa
4)Stanislaus Borges	
5)Savita Rama Naik	St.Francis Xavier's Higher secondary School, Siolim Goa
6)Yukta Yoganand Ghatval	
7)Sayad Kassim Nomaan	Infant Jesus Highers Secondary School, Colva
8)Richie Jesus Coelho	
9)Shivam Sharma	Saraswat Vidyalaya's Purushottam Walwalkar higher Secondary School, Mapusa Goa.
10)Sonam Sharma	

All Goa online quiz competition:

This online quiz competition was organised through Google forms for students of XI and XII 122 students participated from more than 20 Higher Secondary Schools.

The following are the winners

- 1) First place Mst. Rashid Khan worth rupees 1500/-
- 2) 2nd place Mst. Aamir Khan worth rupees thousand
- 3) Third place Dilkhush BalKrishna Kadam worth rupees 800/- of MES Higher Secondary School of Science Curti Ponda Goa.

Three consolation prizes of rupees 500/- each.

- 1) Mst. Nikhil Chari Lourdes Secondary School Valpai
- 2) Miss Aastha Kosambe V.V.M's Ramkrishna Mahadev Salagaoncar Higher secondary Madgaon
- 3) Isha JamluRaj Lotalikar Saraswat Vidyalaya's Purushottam Walawalkar Higher Secondary School Mapusa

Judgement of working model was done by Prof. Pankaj Shirodkar of Vidya Prabodhini college Porvorim and that of PPT was done by Dr. Shripad Garge of IIT Mumbai.

Valedictory function & Prize Distribution Ceremony:

The Prize Distribution Ceremony was conducted on 5th March 2021 in the school premises. The chief guest for the function was Shri. Santosh Amonkar Director, of The Directorate of Education government of Goa.

The guest of honour was Shri. Sanjeev Chodankar, Technical officer of state Council of Science and Technology. The ceremony was graced by The Manager of Vidya Prabodhini Higher Secondary School Shri Datta Naik and The Principal Shri. Damodar Mardolkar. The Prize winners attended the function by following SOPs of Covid Pandemic.

Some of the glimpses of the program





4) St. Xavier's College, Mapusa, Bardez - Goa.

Event 1: **Mathematical Model Making Competition**

St. Xavier's College, Mapusa Goa, organized a **Mathematical Model Making Competition** through online mode. The competition was held in two rounds. In the first round participants presented the working of models through video which were judged by **Dr. M Gilbert Rani** , Assistant Professor in Mathematics, Arul Anandar College, Kurumathur, Madurai District, Tamil Nadu. Based on judging criteria, the top six teams were promoted for the second round.

The second and the final round was questions-answer round, in which video of the top six teams selected in the first round were presented and followed by the interaction of participants of the teams with the judge through online mode. This round was held on 30th March 2021.

Summing up the scores of two round following winners were announced by the chief Guest /judge of the event:

1st Place - Ms. Priti Pandurang Kumbhar and Ms. Sunidhi Damodar Nagvekar, from Holy Cross High School, Bastora Goa

2nd Place - Ms. Riddhi Mahadev Gawandi and Ms. Mallika Gawade, from Pradnya High School, Devsu, Korgao Goa

3rd Place - Ms. Ashweta Vikas Dalvi and Ms. Divyeta Digambar Naik, from St. Lawrence High School, Agassaim, Tiswadi Goa

21 teams from different schools of Goa participated in this competition. The announcement of the result was held on 30th March 2021.

Principal of St. Xavier's College, Goa Prof. Blanche Mascarenhas, welcomed the gathering. Thereafter, Mr. Gajanan Rama Parab, Assistant Professor in Mathematics St. Xavier College Goa introduced the chief guest/judge and the guest of honour.

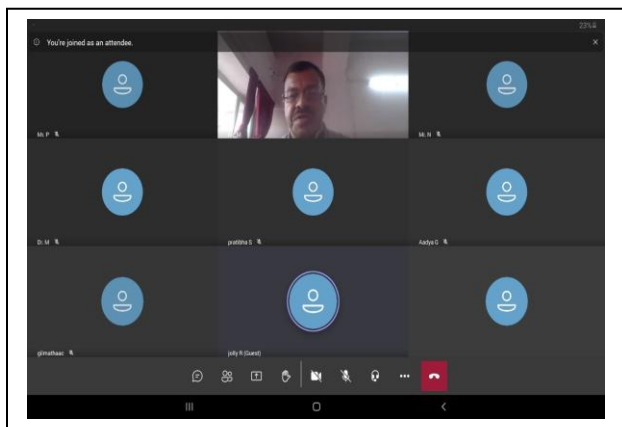
A talk of appreciation was given by guest of honour, Mr. Pradeep Morajkar, Member Secretary, Goa State Council for Science and Technology, Saligao Goa.

Thereafter the second round of the competition (interaction of judge Dr. M Gilbert Rani with the top 6 teams) took place. The results of the competition were announced by the respected judge.

The programme ended with the Vote of thanks by Dr. B. C. Nair, H.O.D of Mathematics Department, St. Xavier's College, Goa.

This programme was compered by Mrs.Vikita Sinari.

Event Incharge : Mr. Rahul Naik and Mrs.Vikita Sinari



Event 2 :Web talk on “ Some of the Contributions of Srinivasa Ramanujan ”

The Department of Mathematics, St. Xavier College Goa, organized a web talk on “**Some of the Contributions of Srinivasa Ramanujan**” on the occasion of National Mathematics Day 2020 on 13th March 2021 at 12.15 pm. This program was a part of the National Mathematics Day 2020 which was Catalyzed and Supported by National Council for Science & Technology Communication (NCSTC), DST, Govt. of India, New Delhi and Goa State Council for Science & Technology (GSCST), Saligao, Goa.

The Web talk was presided over by the Convenor of the event, Mr. Gajanan Rama Parab, Assistant Professor in Mathematics St. Xavier College, Goa.

At the beginning the administrator of the College Rev. Fr. Antonio F. Salema, welcome the guest speaker and participants of the web talk. He highlighted the role and the importance of mathematics in our life.

Dr.Balakrishanan Nair, H.O.D of Mathematics Department delivered an introductory speech in which he gave the structure of the event.

Mr.Gajanan R Parab co-ordinator of the event introduced the guest speaker **Dr.Amit Kulshetha**, Associate Professor, Head, Department of Mathematical Sciences, Indian Institute of Science Education and Research (IISER) Mohali.

Dr.Amit kulshetha delivered talk on Srinivasa Ramanujan's life,his achievements and contributions towards mathematics. It was really a motivational talk. Dr.Amit interacted with the participants and also answered the queries in question answer session.

The session was ended with a thank giving to the guest speaker and all the participants by Mr. Jervin Zen Lobo, Assistant Professor in Mathematics, St. Xavier College Goa.

There were around 93 participants who got to witness the talk.

This programme was compered by Mr. Gajanan Rama Parab.

Event In charge: Mr. Gajanan Rama Parab



Event 3 :Web talk on “ Drawing using LaTeX ”

The Department of Mathematics, St. Xavier’s College organized a One Day Program on “Drawing Using LaTeX” on 21st March 2021 at 5:30 pm. This one day program was a part of the National Mathematics Day 2020 which was Catalyzed and Supported by National Council for Science & Technology Communication (NCSTC), DST, Govt. of India, New Delhi and Goa State Council for Science & Technology (GSCST), Saligao, Goa.

The resource person for the program was Dr. M. Gilbert Rani, Assistant Professor in Mathematics, Arul Anandar College (Autonomous), Madurai, Tamil Nadu. The program began with Dr. B. C. Nair, Head, Department of Mathematics, St. Xavier’s College, Goa, welcoming address and briefly introducing the program . This was followed by introducing the resource person by Mr. Gajanan Parab, Assistant Professor in Mathematics, St. Xavier’s College, Goa.

The session on “Drawing Using LaTeX” was divided into 3 parts. In the first part, the resource person gave a quick introduction to LaTeX –downloading and installing the necessary software. This was followed by some quick use of LaTeX to write sentences and structure/organize them. The first method described was **Image Fitting Method**. This is the most popular method used by academicians to draw diagrams in LaTeX which involves importing an existing figure that is already saved in the computer, in the same folder as the source code. The commands to call this figure, place it appropriately, caption and label it and adjust it (using width and height) was explained and illustrated. The resource person stressed that it is important to call the figure by the same extension it is stored it (uaually .png or .jpg).

The next part on drawing was the use of a software called **TeXCAD**. The resource person explained the installation of a trial version and said that this is a licensed software. She illustrated how basic geometric figures like lines, circles, rectangles, oval shapes, etc can be drawn with existing tools embedded in the software itself. The best part of this method is that the source code is automatically generated and can be copy pasted in the LaTeX editor. She showed by illustration that free hand diagrams can also be drawn.

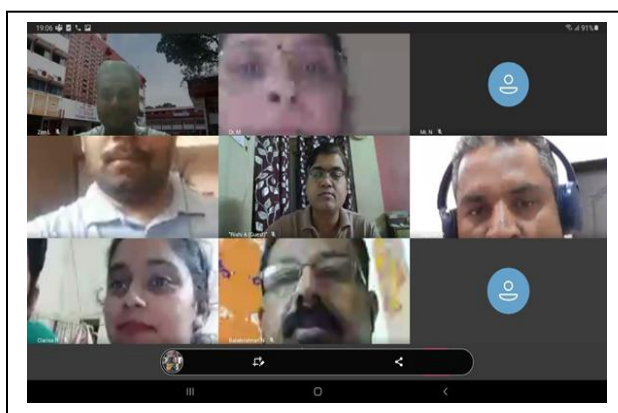
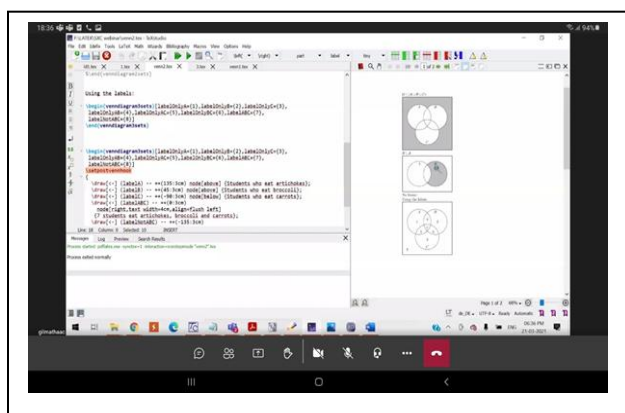
The best was saved for the last. The “best method” namely using **LaTeXDraw** was explained and illustrated by the resource person. This best part of this software is that it is open source (free for all) and extremely user friendly. She explained that this software has all the features of TeXCAD. She demonstrated Venn Diagrams, functions from one set to another, and labeling of figures by writing Mathematical symbols and expressions anywhere in and around the figure. The source code which was automatically generated was copy pasted in a LaTeX editor and the corresponding figure was generated in a pdf format. Free hand diagrams were explained in which the code is generated automatically as one draws the figure. Several used figures by Mathematicians were illustrated to give a feeling of the software.

The biggest advantage of using these methods is that it eliminates the difficulty of writing sticky code to draw figures using the standard tikz package.

This program was conducted using Microsoft Teams, a licensed platform used by the college. Around 100 participants from over 12 states attended the program and thoroughly enjoyed it and were enriched by it. Several queries were asked by the participants in the Q&A session and were answered by the resource person. The participants said that the program was very fruitful and went a long way helping them understand and use it in their day-to-day teaching-learning and research. The program ended at 7:10 pm with Mr. Jervin Zen Lobo, Assistant Professor in Mathematics, St. Xavier's College, Goa proposing the vote of thanks.

This programme was compered by Mr. Gajanan Rama Parab.

Event In charge: Mr. Zen Lobo



5) St. Michel's Convent High School, Anjuna – Vagator – Goa



Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers. Mathematics is the most beautiful and most powerful creation of the human spirit.

The Mathematics club of St. Michael's Convent High School, Vagator -Anjuna, Bardez Goa organized several online and offline activities during the current academic year 2020-2021 under the guidance and supervision of our Headmistress Rev. Sr. MargaretRodrigues and Mathematics teachers.

The National Mathematics Day is celebrated on 22nd of December every year. To mark this occasion the National Mathematics Day was celebrated on the 22th of January 2021 at St. Michael's Convent High School. The whole program for various mathematical activities for the year 2020-2021 was funded by Goa State Council for Science and Technology Saligao.

Mr. Sylvester D'Souza, Headmaster of Sacred Heart of Jesus High School, Anjunawas invited as the chief guest and resource person for the day. He was welcomed by our Headmistress Rev. Sr. MargaretRodrigues and Mathematics teachers.

The day began with and lighting of the lamp at the hands of the Chief Guest, the Headmistress , and the mathematics teachers of the school followed by the garlanding the portrait of Srinivasa Ramanujan by the Chief Guest.

The august gathering was welcomed by the Headmistress and the chief guest was introduced to the audience by Mr. Shamsundar Naik.

A video was screened to highlight the importance of observing National Mathematics Day

Power Point Presentations on great Indian Mathematicians highlighting their achievements were presented by students of class X, to enlighten the students of their contributions in the field of mathematics.

The students of std. V and VI depicted how mathematics is important in our day to day lives through a online enactment competition. The best four enactments were presented on the day.

The discovery of magic square by Ramanujan was fascinating to the students which was presented for their viewing.

The students of class VIII and IX prepared working / Static Model on Mathematical concepts and the same were displayed for viewing.

Students of class VII showcased their artistic talents through rangoli competition on great Indian mathematicians.

As a part of the celebration Mathematics project competition was held for the students of std. VIII and IX. The best 12 projects were awarded.

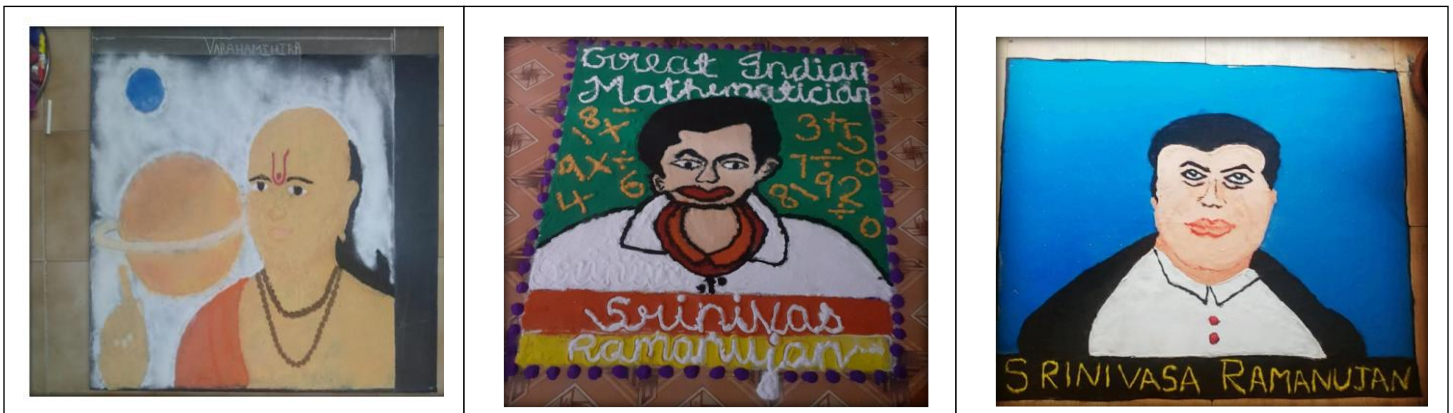
Mr. Sylvester D'Souza, Headmaster of Sacred Heart of Jesus High School, Anjunain his speech highlighted that the students should take keen interest in mathematics as the foundation of their

life is dependent on mathematics. The Headmistress Rev. Sr. Margaret Rodrigues in her speech advised the students to take part in various mathematics activities and appreciated the students for their active participation in various competition.

The mathematics club prepares posters on various themes every month and display on the mathematical club board. The club also organizes school assembly in which The Headmistress awards and appreciates the good work done by the club members.

Prizes and certificates for various competitions were awarded to the students at the hands of the chief guest and Headmistress of the school. The program ended by singing the National Anthem.

Best 3 selected Rangolis



Mathematics Project Competition





6) St. Joseph Vaz High School, Sancoale- Goa



St. Joseph Vaz High School, Sancoale Goa celebrated Math Day “Brain Matrix-2021” on 6th February 2021 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 Brain Matrix – 2021 was to build confidence of students in their Mathematical skills and to help students learn best when presented with a concept they can manipulate and visualize. It revolved around creating three dimensional working and static mathematical models.

The programme began with a Welcome Dance, a Prayer invoking God’s blessings followed by the inaugural of the Brain Matrix logo at the click of the icon on the mobile which was creatively designed that got lit and opened up simultaneously with numbers popping out of the brain, an awesome depiction. The logo was appreciated by the Chief guest, dignitaries, guests and everyone present.

Our Chief Guest of the day was Mrs. Cassie De Souza, Headmistress of Infant Jesus High School, Colva and the Guest of Honour was Rev. Sr. Milena Mascarenhas, Our Retired Staff. The Math Day consisted of series of competitions held offline due to Covid – 19 pandemic.

The venue was well decorated with colourful backdrop of Math symbols and shapes which enthralled the audience.



Following is the list of the competitions held, description, rules and judging criteria along with the number of Participants and the Winners.

Std: 1 A

Title: Making Clock Models

Description: A 2D model of clock

Size dimension: 80cm x 45cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.



NUMBER OF PARTICIPANTS: 13 Participants

WINNERS: Class I A

1. Mast. Pratik Sable
2. Aarvi Kadam
3. Ranveer Singh

Std: 1B

Title: Model using four geometrical shapes

Description: Any model using four geometrical shapes such as square, rectangle, triangle and circle.

Size dimension: 80cm x 30cm

Judging criteria: Neatness, creativity, Work involved, Materials Used, Overall presentation.

A MODEL USING FOUR GEOMETRICAL SHAPES

NUMBER OF PARTICIPANTS: 11 Participants

WINNERS: Class I B

1. Rishi Ramesh Pednekar
2. Zayyan Dourado
3. Abdul Qader Shaikh

Std: II

Title: Designing a calendar

Description: A model on calendar

Size dimension: 40cm x 30cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

DESIGNING A CALENDAR

NUMBER OF PARTICIPANTS: 20 Participants

WINNERS: Class II

1. Joseph Vio Faria
2. Rajasmita Pradhan
3. Vedant Supugade

Std: III

Title: **To prepare a model on addition and subtraction**

Description: A mathematical model using either addition or subtraction

Size dimension: 50cm x 35cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

Model On Addition And Subtraction

NUMBER OF PARTICIPANTS: 12 Participants

WINNERS: Class III

1. Shreyash Naik
2. Ashang Naik
3. Raashish Naik

Std: IV

Title: To prepare a model on multiplication

Description: A model on the topic multiplication.

Size dimension: 30cm x 20cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

MODEL ON MULTIPLICATION

NUMBER OF PARTICIPANTS: 17 Participants

WINNERS: Class IV

1. Anirudh M.S.
2. Raj Naik
3. Soumya Betageri

Std: V

Title: Fish tale

Description: A Fish Art using geometrical shapes in 2D form.

Size dimension: 80cm x 45cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

FISH TALE

NUMBER OF PARTICIPANTS: 18 Participants

WINNERS: Class V

1. Manish Devadiga
2. Saachi Kumbhar
3. Pratik Badtya

Std: VI

Title: Geometrical Lamp

Description: A spherical lamp with geometrical shapes.

Size dimension: Diameter = 30cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

GEOMETRICAL LAMP

NUMBER OF PARTICIPANTS: 26 Participants

WINNERS: Class VI

1. Malvina D'souza
2. Deep Naik
3. Swastika Das

Std: VII

Title: **Build your castle**

Description: A castle using 3D shapes.

Size dimension: 100cm x 60cm x 50cm

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

BUILD YOUR CASTLE

NUMBER OF PARTICIPANTS: 14 Participants

WINNERS: Class VII

1. Janve Bhutia
2. Yadnya Narvekar
3. Cressida Carvalho

Std: VIII

Title: **Graffiti - T**

Description: To paint a Graffiti using 2D shapes. The painting needs to include a mathematical concept (for example a formula). Students need to use acrylic paints.

Size dimension: Medium size white cotton T – shirt.

Judging criteria: Neatness, Creativity, Work Involved, Materials Used, Overall presentation.

GRAFFI – T

NUMBER OF PARTICIPANTS: 23 Participants

WINNERS: Class VIII

1. Ritik Kumar
2. Anusha Metri
3. Chaithanya Nadimpally

Std: IX

Title:Mathematical Teaching Model.

Description: A mathematical model using mathematical concepts related to class 8 or class 9 syllabus or any other relevant topic.

Size dimension: 100cm x 60cm

Judging criteria: Neatness, Creativity, Execution, Materials Used, Overall presentation.

MATHEMATICAL TEACHING MODEL

Number of participants: 31 Participants

WINNERS: Class IX

1. Rogul Nadar
2. Rohit Gaude
3. Shreya Singh

Some of the glimpses of the program





8) Shri Saraswati High School, Juvem, Tonca St. Estevam, Tiswadi, Goa.

Mathematics day celebration programme was organised in Shri Saraswati High School in association with Goa State council for Science and Technology, Saligao Goa which is catalyzed and supported by National Council for Science and Technology Communication (NCSTC), DST, Govt. of India New Delhi.

In the beginning of this programme inauguration of **SILVER JUBILEE YEAR PROGRAMME** of Shri Saraswati High School was done at the hands of the Chairman of the school Shri. Dilip V Betkekar who is also the vice president of Akhil Bhartiya Vidya Bharati Sanstha.

Inauguration of Mathematics day was done at the hands of Shri Manoj Savaikar Asst Director of North Education Zone, other dignitaries on the dais were Shri Purshottam Kamat, the president of Juve akhada Dyan Vikas Sanstha which runs Shri Saraswati High School. Shri Ajay Tari a Local Panch member, Shri Ishwar Kubal Headmaster of Shri Saraswati High School.

All together 72 students participated from 8 schools. Other members who were present includes 6 resource persons, 6 guests, 15 students volunteers and 26 teaching and non-teaching staff of Shri Saraswati High school.



The chief guest Shri Manoj Savaikar highlighted the life span of Indian mathematicians Shrinivas Ramanujan and his contribution in the field of mathematics and science. He also motivated

And encouraged students to develop scientific attitude among themselves.

In a full day programme altogether five sessions were organised by the organizers

First session was conducted by Sau Krupa A Gadgil on the Topic “Indian Mathematicians and their contributions” followed by Shri Sagar Sakordekar on the topic “Vedic Mathematics”.

The resource person focused on history of Indian mathematics and highlighted the contributions of mathematicians who have made revolutionary changes in the world for mathematics. Brief introduction was give about mathematicians like Aryabhata, Brahmagupta, Varahamihir, Bhaskaracharya, Radhanath Sikdar, Swami Bharati Krishna Tirth, Shrinivas Ramanujan and Dattatray Kaprekar.

Vedic mathematics is the ancient system of calculation which was rediscovered from the Vedas by Swami Bharati Krishna Tirth. It is based on 16 sutras or word formulae which helps to solve numerical calculations in easy and faster way. Some of the sutras were used by resource person Shri Sagar Sakordekar to teach the following concepts in mathematics.

- History of vedic mathematics
- Special case in multiplications
- Squares of numbers ending with 5
- Complement of numbers
- Cube root of two digit numbers

Students enthusiastically participated and fully enjoyed the simple techniques of calculations in vedic mathematics

To connect mathematics they learn in school with everyday life, session on “Applications of Mathematics in day to day life” was conducted by retired Prof. Atmaram Gaonkar.

Resource person covered the matter related to day to day calculations regarding area of table, approximate volume of refrigerator etc. Application of Pythagoras theorem by meson, architect etc. in the field of construction was introduced by the speaker. He also informed students about how trigonometry is used to calculate the height of a tower, building and trees etc.

Use of linear equations with two commodities and n^{th} order of equations were also covered with its practical application.

After lunch quiz competition was held among all 8 schools present for the programme which was conducted by Shri Sadanand Mishal and Shri Nanda Majik in two different rounds.

In first phase all 8 schools participated in written test out of which 5 schools were shortlisted. In the second phase four rounds were conducted

1. In the first and second round questions in general topics in mathematics were asked.
2. Third round consisted of rapid fire round.
3. Fourth round was activity based round which consisted of length and weight estimates.

Results of competition was as follows.

- 1) St Theresa High School , Sto Estevam
- 2) K.R.S.S High School Savoi Verem
- 3) Madkaikar Navchaitnya High School Corlim
- 4) Shri Sarswati High School Juve
- 5) S.S.V Govt High Shool Kumbharjua

Last Session was conducted by Prof Abhay Bhamaikar on “Teaching Aids in Mathematics.

Following topics were covered

1. Teaching aids on Pythagoras theorem
2. Total surface area of cylinder and its curved surface area
3. Total surface area of cone and its curved surface area
4. Volume of cone and cylinder and their comparison
5. Simplified steps in quadratic equations in two variables
6. Simple methods to find out square root of numbers

Shri Pradeep Morajkar, member secretary of Goa State council for Science and Technology, Saligao Goa was present as a chief guest for the concluding ceremony. Other dignitaries on the dais were Sarpanch of V.P St Estevam Smt. Jonita Dcosta, local Panch Shri Ramanand Tari.

Chief guest Shri Pradeep Morajkar spoke on the importance of D_s like Dream, Determination, Dedication& Discipline in life to achieve success. He also felicitated the prize winners of the mathematics quiz competition.



