

REPORT ON

# NATIONAL MATHEMATICS DAY – 2015

Principal Investigator

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Indian Institute of Science campus, Bengaluru

**REPORT ON**

**NATIONAL MATHEMATICS DAY – 2015**

**Organization:**

Karnataka State Council for Science and Technology (KSCST) was established in 1975 to play a catalytic role in promoting the use of Science and Technology in the development process of the State. In order to improve the quality of education in the State, particularly in rural areas, it was felt necessary to introduce some effective programmes in schools and colleges. This is to help creating science awareness in students and to improve their career. The activities like ‘Student Scientist Interaction Programme’ (SSIP) and Vijnana Darshana (VD) in which students from higher secondary schools/colleges and scientists are brought together wherein students can directly ask questions to scientists to clarify their doubts to improve their understanding and are visiting various R&D institutions respectively. Many such interaction programmes have been conducted at various schools all over Karnataka. KSCST is celebrating National Science Day on 28<sup>th</sup> February every year on the specific theme suggested by NCSTC, GoI. KSCST has celebrated National Mathematics Day 2015 on 22<sup>nd</sup> December 2015.

Mathematics plays a vital role in the modernization of this civilization. It is everywhere and affects the everyday lives of people. Although it is abstract and theoretical knowledge, it emerges from the real world. Mathematics is one of the essential and basic areas of the college curriculum which has a wide field of subject matter. In education, mathematics plays an important role. It is the study of numbers the relationship between these number and various operations performed on them. It is the science of quantity, size and shape. It is also a way to communicate and analyze ideas, a tool for organizing and interpreting data and above all, perhaps a method of logical reasoning unique to man. Mathematics is a necessary part of other sciences. In the words of Physicist Richard Feynman “Nature talks to us in the language

of mathematics, that is numbers, mathematical rules and equations help us to make sense of the world around us

**Objectives of the proposed programme:**

- To celebrate and appreciate the contribution of Mathematics Wizard DR. S. Ramanujan
- To inspire young children with life history of Ramanujan, to take up career in mathematics
- To eradicate phobia and fear against mathematics among children and adults
- To make mathematics field as attractive career to young children
- To produce top quality mathematicians and make the country proud
- To inspire mathematicians to take up high end research in the field of mathematics
- To organize 25 technical lectures on mathematics topics/issues including Engineering mathematics
- To enthuse the High School teachers and College faculty in recent trends in Mathematics/Statistics.

**S&T component in the project:**

- Popularization of the mathematics and allied subject contents.
- Preparation of models, posters and puzzles during the workshop.
- Building up confidence among teachers and students.
- Highlighting different career opportunities in the field of Mathematics.
- Maintain the class room culture and practices day to day aspects of mathematics.
- To cultivate the ability to think and deal with problems those arise in the physical environment logically on the basis of facts.
- Interaction with the experts and show case day to day actions in mathematics.

## **Celebration of National Mathematics Day - 2015**

Karnataka State Council for Science and Technology, IISc campus, Bengaluru and National Council for Science and Technology Communication Government of India, New Delhi jointly celebrated National Mathematics Day on 22nd December 2015 at Prof. Satish Dhawan auditorium Indian Institute of Science, Bengaluru. Around 320 High School Students from BBMP High Schools have been participated in this event.

The program was inaugurated by Dr. C S Aravind TIFR, Centre for applicable mathematics. Guest of honor was Shri V S S Shastri, National Awardi , Origami expert and Prof. S Subramanian, KSCST presided over the program. The Posters on History of Mathematics prepared by National Council for Science and Technology Communication Government of India, New Delhi has been displayed along with few Origami mathematical models.

The program follows two technical lectures one on Mathematics for Daily Life by Shri. T. K. Prasanna Murthy, Mathematician, Vijaya High School. He explained usage of Mathematical Logarithms and equations in day to day life with the importance of mathematics in growing life.

The Second technical lecture was by C. S. Aravinda TIFR Centre for Applicable mathematics on mathematics in nature. He explained about relation of mathematics in the nature and its importance. He said that everything has been owned by nature but we human need to understand plenty of things. He compared nature to the treasury; He related longitudes and latitudes of the earth to the ridges of the fruit. He tried to convey the students about presence of mathematics in nature.

The third session was on mathematical activity. The session was conducted by Shri V. S. S. Shastri and Shri Chikkamath, Science communicators. The session included magic cube making by students and exhibition of origami models with hands on activity. The program concluded by distribution of Technical books on Shrinivasa Ramanujan to all the participants.

Mathematics posters on history of mathematics in India and Mathematicians prepared by National Council for Science and Technology Communication

Government of India, New Delhi and origami models prepared by Shri. C. S. Chikkamath were displayed in the foyer of auditorium.

### **List of School participated in the NMD – 2015**

<b>Sl No</b>	<b>Name of the School</b>	<b>No. of Participants</b>
1	BBMP Boys and Girls High School Gandhi Nagar Bangalore	18
2	BBMP High School Chamarajpet Bangalore	21
3	BBMP Boys High School Kodandaramapura Malleswaram Bangalore	23
4	BBMP High School Kasturba Nagar Mysore Road Bangalore	22
5	BBMP High School Marappana Palya Yeshwantapura Bangalore	22
6	BBMP Girls High School Dispensary Road Bangalore	21
7	Bappu High School Yeshwantapura Bangalore	21
8	BBMP Boys High School Sriramapura Bangalore	22
9	Gurushree VidyaKendra Doddabidrekallu	27
10	Adarsha School	21
11	BBMP Boys High School Tusker Town Bangalore	21
12	BBMP High School Mathekeri Bangalore	23
13	BBMP Girls High School Kodandaramapura Bangalore	23
14	Shankar English School	22
	<b>TOTAL</b>	<b>307</b>

# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru-560012

## NATIONAL MATHEMATICS DAY – 2015

**Date** : 22<sup>nd</sup> December, 2015

**Time:** 10.00 am

**Venue** : Prof. Satish Dawan Auditorium, IISc, Bengaluru

### INAUGURAL FUNCTION

- 09.30 am – 10.00 am : **Registration**
- 10.00 am – 10.05 am : **Invocation**
- 10.05 am – 10.10 am : **Welcome**  
**Dr. S. G. S. Swamy**  
Executive Secretary, KSCST
- 10.10 am – 10.30 am : **Inaugural Address by**  
**Dr. C. S. Aravinda**  
TIFR, Centre for Applicable Mathematics,  
Bengaluru
- Guest of Honour:**  
**Shri. VSS Shastry**  
Science Communicator, Kolar
- 10.30 am – 10.40 am : **Presidential Remarks by**  
**Prof. S. Subramanian**  
Secretary, KSCST and Professor  
Dept. of Materials Engineering, IISc
- 10.40 am – 10.45 am : **Vote of Thanks**  
**Mrs. Prema Iyer, KSCST**

### **Technical Sessions**

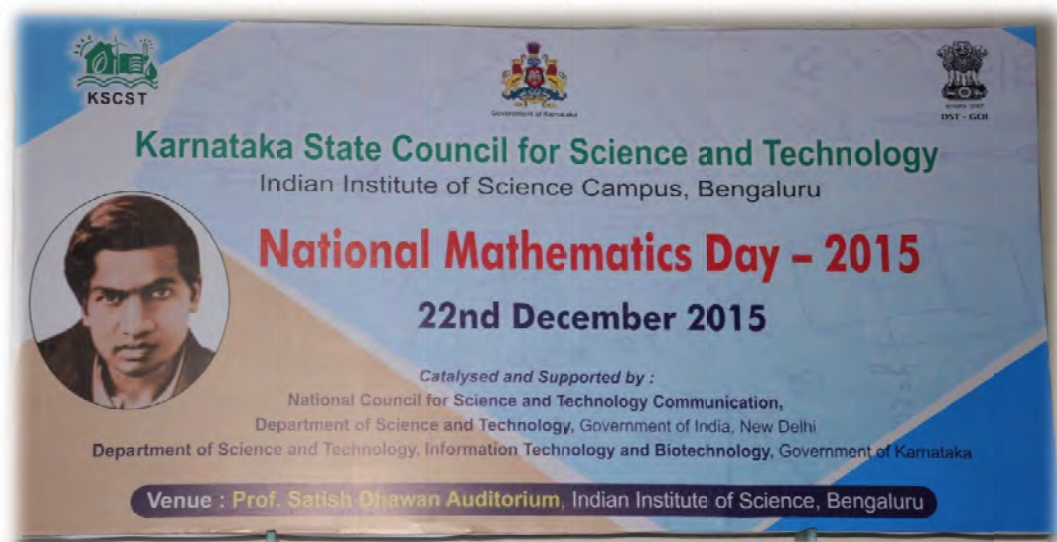
- 10.45 am – 12.00 noon : Exhibition of displayed poster prepared by  
NCSTC, DST GoI.
- Exhibition of Mathematics models  
- **Shri C. S. Chikkamath**  
Science Communicator, Shimoga
- 12.00 noon – 12.45 pm : Mathematics in Nature  
**Dr. C. S. Aravinda**  
TIFR, Centre for Applicable Mathematics,  
Bengaluru

- 12.45 pm – 01.30 pm : Mathematics in daily life  
**Shri. T. K. Prasanna Murthy**  
Vijaya High School, Bengaluru
- 01.30 pm – 02.15 pm : Lunch
- 02.15 pm – 03.00 pm : Documentary film show on S. Ramanujan
- 03.00 pm – 3.30 pm : Magic square making activity  
**Shri. VSS Shastry,**  
Science Communicator, Kolar

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**Catalysed and Supported by:**

National Council for Science and Technology Communication,  
Government of India, New Delhi



National Mathematics Day -2015 organized on 22<sup>nd</sup> December 2015 at Prof. Satish Dhawan Auditorium, Indian Institute of Science, Bengaluru

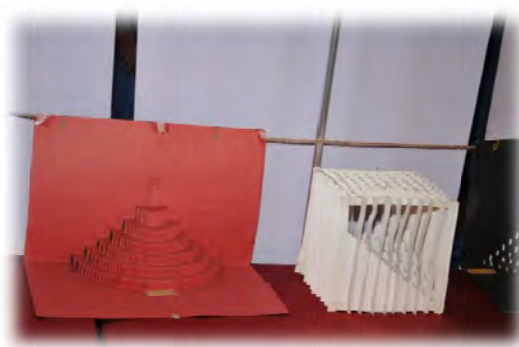


Students registering for the NMD-2015 programme





A view of the students during the program



View of origami models displayed during NMD programme



Lecture by Shri. T. K. Prasanna Murthy, Mathematics Teacher, Vijaya High School, Bengaluru



Lecture by Dr. C. S. Aravinda, TIFR, Centre for Applicable Mathematics, Bengaluru



Value of Pi displayed in the auditorium



Lecture and demonstration by National Awardee Shri. V. S. S. Shastry explaining about geometrical models



National Awardee Shri. V. S. S. Shastry and Shri. C. S. Chikmath State Awardee explaining about geometrical models



Students displaying cube model made during the hands on activity programme