



## Society Activity Report 2019-20

### Mathematics Society

#### -Workshops, Lectures, and symposiums:

#### TALK - Breaking Cognitive Barriers with Arithmetic

Date – 03/09/2019

No. Of Participants- 63

#### Description

The talk titled 'Breaking Cognitive Barriers with Arithmetic' was delivered by Neelkantha Bhanu Prakash (St. Stephen's College, B.Sc. (Hons) Mathematics 3rd Year). It helped the students learn about fast arithmetic computation, and the concept of multitasking along with live demonstration by the speaker.

The speaker holds the record of being world's fastest human calculator and demonstrated commendable skills.



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and  
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**The Mathematics Society**  
St. Stephen's College  
*Invites you for a*  
*Talk on*

**Breaking Cognitive Barriers**  
**With Arithmetic**  
By the World's Fastest Human Calculator  
and TEDx Speaker :  
**Neelakantha Bhanu Prakash**

Followed by a talk by Endeavour  
**Why MBA After Graduation**

**3 September | NCLT | 2:00 PM**  
*Refreshments will be provided to all attendees*

Sponsored by  
**Endeavor**  
dream...endeavor...achieve

Hardik : +91 77340 52385    Hitesh: +91 70657 04907    Shubham: +91 80063 79959



## PROFESSOR SB MATHUR LECTURE SERIES

### Day 1- Workshop

Date – 16/10/2019

No. Of participants- 37

#### Description

The workshop was headed by Dr. Monika Arora (Assistant Professor, Department of Mathematics, IIT Delhi). It helped students learn about SPSS statistical software which is widely used for analysis. The participants were required to bring their own laptop for seeing the working of the software.

### Day 2 – Lecture

Date – 22/10/2019

No. Of participants- 60

#### Description

A Lecture was conducted on the topic 'Euclidean and non - Euclidean Geometry' by Dr. Mukund Madhav Mishra (Assistant Professor, Department of Mathematics, Hansraj College). It aimed at broadening the concepts of students about non - Euclidean geometry, in order to visualise things in a non planar world.

The Mathematics Society  
St. Stephen's College  
Presents

**Professor SB Mathur  
Memorial Lecture Series**

**SPSS WORKSHOP**  
By Monika Arora  
IIT Delhi  
16 OCT | 2 PM | Room G

*Ice Cream for Participants!*  
Open only for Stephanians

Restaurant Partner:

This poster features a dark background with a blurred image of a person. The text is white and yellow. At the bottom, there is a red circular logo for Nirula's restaurant.

The Mathematics Society  
St. Stephen's College  
Presents

**Professor SB Mathur  
Memorial Lecture Series**

**EUCLIDEAN AND NON  
EUCLIDEAN GEOMETRY**  
By Mukund Madhav Mishra,  
Hansraj College  
22 OCT | 2 PM | Room C

*Refreshments will be provided to all participants*  
Open only for Stephanians

Register at: [http://tiny.cc/SB\\_Lecture](http://tiny.cc/SB_Lecture)

This poster features a dark background with mathematical diagrams and formulas in various colors. The text is white and yellow. At the bottom, there is a registration link.



## SYMPOSIUM

Date- 20/03/2020 and 21/03/2020

'Symposium on Algebra, Analysis and Mathematical Modelling: Focus on Women in Mathematics' aimed at promoting research among budding mathematicians. It consisted of a series of lecture and a panel discussion on 'Challenges and Opportunities in Mathematics' stretched over a period of 2 days. The speakers for the lectures were:

S.NO.	NAME OF THE SPEAKER	NAME OF INSTITUTE	EVENT/LECTURE
1.	Professor Riddhi Shah	JNU	Inaugural Ceremony
2.	Professor Parvin Sinclair	TIFR, Mumbai	Inaugural Ceremony
3.	Professor Vijaylaxmi Trivedi	TIFR, Mumbai	Inaugural lecture
4.	Professor Ranjana Jain	University of Delhi	Analysis
5.	Dr. Tanvi Jain	ISI, Delhi	Analysis
6.	Professor Vandana Khaitan	University of Delhi	Operational research
7.	Professor Shobha Bhagai	Cluster Innovation Center, University of Delhi	Mathematical Modelling
8.	Dr. Amala Bhave	JNU	Algebra
9.	Dr. Maya Saran	Ashoka University	Algebra
10.	Dr. Haneet Gandhi	Department of Education, University of Delhi	Panel discussion
11.	Dr. Sneha Chaubey	IIT Delhi	Panel discussion
12.	Dr. Priyanka Grover	Shiv Nadar University	Panel discussion



## The Mathematics Department

*in association with*

### The Mathematics Society

### St. Stephen's College

University of Delhi

Presents

## Symposium on 'Algebra, Analysis and Mathematical Modelling with Focus on Women in Mathematics'

**20th - 21st March 2020**

### Speakers

- **Prof. Vijaylaxmi Trivedi**  
*Department of Mathematics  
Tata Institute for Fundamental Research,  
Mumbai*
- **Prof. Shobha Bagai**  
*Cluster Innovation Center  
University of Delhi*
- **Dr. Tanvi Jain**  
*Theoretical Statistics and Mathematics Unit  
Indian Statistical Institute, Delhi*

### • Dr. Maya Saran

*Department of Mathematics  
Ashoka University*

### • Dr. Ranjana Jain

*Department of Mathematics  
University of Delhi*

### • Dr. Vandana Khaitan

*Department of Operational Research  
University of Delhi*

### • Prof. Geetha Venkataraman

*Professor of Mathematics  
School of Liberal Studies  
Ambedkar University, Delhi*

### Registration Details

- Undergraduate students from second year onwards are eligible to participate
- The candidates are required to submit their CV and a Letter of Recommendation (LOR) which will form the basis of the selection criteria
- Interested candidates can register at-  
<https://tinyurl.com/wjsj462>

**Convener: Dr. Jaspreet Kaur**  
**Contact: +91 99998 46605**

For any queries contact:

Shubham: +91 80063 79959

Hitesh: +91 70657 04907

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**Symposium on 'Analysis, Algebra and  
Mathematical Modelling with Focus on  
Women in Mathematics'**



Under the aegis of IQAC, St. Stephen's College  
Organised by  
**The Mathematics Department**  
in association with  
**The Mathematics Society**  
St. Stephen's College, University of Delhi  
20th, 21st March

**Panel Discussion**  
on  
**Challenges and Opportunities in  
Mathematics with Special Focus on  
Women**

**Dr. Amber Habib**  
Shiv Nadar University  
(Moderator & Panellist)

**Dr. Haneet Gandhi**  
Dept. of Education  
University of Delhi  
(Panellist)

**Dr. Sneha Chaubey**  
IIT Delhi  
(Panellist)

**Dr. Priyanka Grover**  
Shiv Nadar University  
(Panellist)

**Date: 21st March 2020**  
**Time: 2:00 PM - 3:30 PM**

**Shubham: +91 80063 79959**

**Hitesh: +91 70657 04907**

The symposium could not be conducted due to the unfortunate spread of COVID-19.

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 **SYMPOSIUM ON 'ANALYSIS, ALGEBRA AND  
MATHEMATICAL MODELING WITH FOCUS  
ON WOMEN IN MATHEMATICS'** 

Organised by  
**THE MATHEMATICS DEPARTMENT**  
In association with  
**THE MATHEMATICS SOCIETY**  
St. Stephen's College, University of Delhi  
**20TH, 21ST MARCH 2020**

**INAUGURAL CEREMONY  
&  
INAUGURAL LECTURE**

**BY**

**PROF. VIJAYLAXMI TRIVEDI**  
**DEPARTMENT OF MATHEMATICS**  
**TATA INSTITUTE OF FUNDAMENTAL RESEARCH**  
**MUMBAI**

**Date : 20th March 2020**  
**Venue: Seminar Room, St. Stephen's College**  
**Time: 9:00 AM**

For any queries contact:  
Eshita: +91 9818450502      Naomi: +91 87553 97597



## WEBINAR

Date – 19/05/2020

No. Of Participants- 70

Description

It was conducted to promote research in mathematics among women. It consisted of a documentary screening followed by a discussion. The title of the documentary was, "Secrets of the Surfaces: The Mathematical Vision of Maryam Mirzakhani ". The discussion was headed by two panellists Professor Riddhi Shah (Department of Mathematics, JNU) and Professor Geetha Venkataraman (Ambedkar University, Delhi) . The discussion made the students aware of the challenges faced by women mathematicians, their solution and the contribution of various women mathematicians.

 **THE MATHEMATICS SOCIETY**  
**ST.STEPHEN'S COLLEGE**

organizes documentary screening

**SECRETS OF THE SURFACE: THE MATHEMATICAL  
VISION OF MARYAM MIRZAKHANI**

Followed by a discussion and question answer session  
by

**Prof. Riddhi Shah**      **Dr. Geetha Venkataraman**  
(Department of Mathematics, JNU)      (Ambedkar University, Delhi)

**Date: 19 May 2020**  
**Time: 2-3:30 P.M**

*The webinar will be on Google Meet*

For Further Queries Contact  
Bhavya Agarwal : +91-70841 22695      Eshita Goel : +91-98184 50502



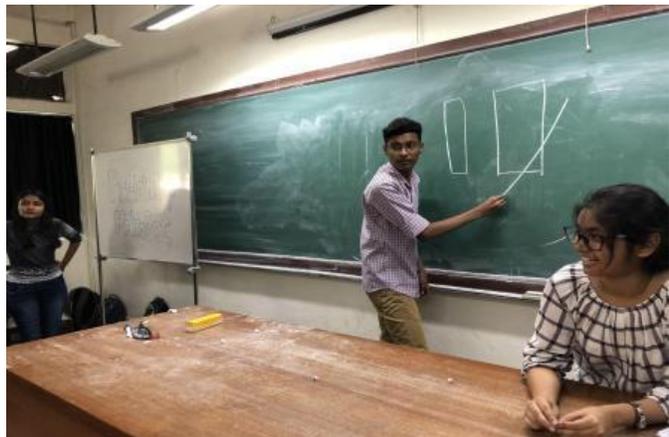
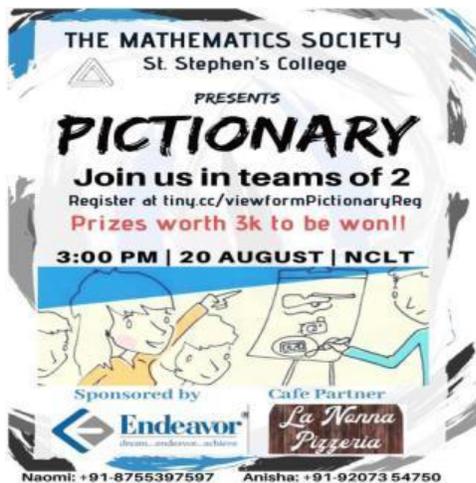
## PICTIONARY

Date – 20/08/2019

No. Of Participants- 83

Description

The aim of Pictionary was to test mathematical perspective with respect to relating real-life objects and geometrical figures. One of the team members is blindfolded and describes an object/word using mathematical figures. The other team member draws the object and try to guess the word/object, the drawing is intended to represent. The event saw participation from various courses including History and English.



## TREASURE HUNT

Date – 26/09/2019

No. Of Participants – 556

Description

It was held as an open event in which the participants were required to solve a chain of clues which are based on logical reasoning, aptitude with a bit of mathematics. The team was required to decode all clues correctly in minimum possible time.



## GRIPHOMANIA

Date – 03/10/2019

No. Of Participants – 80

Description

It was held as a closed event which allowed participants to test their puzzle solving skills. It included different forms of puzzles like sudoku, kakuro, slitherlink, and also brain teasers that tested both mathematical and logical skills. In two subsequent qualifying rounds, the team solving the most questions correctly wins.



**THE MATHEMATICS SOCIETY**  
ST. STEPHEN'S COLLEGE

# GRIPHOMANIA

Sudoku, Kakuro, Hitori and much more!!  
Participation in teams of two, lone wolves are also welcome  
CASH PRIZES WORTH 2.5K TO BE WON!!

Reg at: <https://tinyurl.com/Gripho-19>  
3 Oct | 2 pm | OCLT

Our sponsor: 

Eshita: 9818450502 Hardik: 7734052385 Naomi: 8755397597

## SINE ME UP

Date – 18/10/2019

No. Of participants – 105

Description

The event aimed to test the interpretation skills of the participants. Participants were subjected to some simple statements, titles and anagrams with a Mathematical twist and were asked to interpret their possible meaning(s) in simple language.

**The Mathematics Society**  
St. Stephen's College

Presents

# Sine Me Up!

Anagrams, Mystery Numbers,  
Movie References and much more!

**18 October | 2:00 PM | NCLT**

Participation in teams of two, lone  
wolves are also welcome!  
Cross college teams are allowed!

Cash prizes worth 3K to be won!!

Register at : <https://tinyurl.com/SineMeUpReg>

Shubham: +91 80063 79959 Shravya: +91 98953 20755



## MATHSOC OPEN

Date – 15/02/2020 and 16/02/2020

No. Of Participants- 118

Description

Mathsoc Delhi open is an event organised by the society in collaboration with the World Cube Association every year with an attempt to provide a national level platform to potential Cubers, giving them an opportunity to showcase their skills. It deals with various sorts of cube including blindfolds, pyramix along with others, with an age ranging from 5 to 20 years old. We witness records being broken and new ones being made just in a fraction of seconds.

**THE MATHEMATICS SOCIETY**  
**ST. STEPHEN'S COLLEGE**

WORLD CUBE ASSOCIATION

PRESENTS

# MathSoc Delhi Open 2020

**15TH & 16TH FEBRUARY 2020**  
**VENUE: ST. STEPHEN'S COLLEGE, STAFF ROOM**

Register At:  
<https://www.worldcubeassociation.org/competitions/MathSocDelhiOpen2020#general-info>

For Enquiries Contact: Bhavya +91 70841 22695 Arya +91 88481 13164

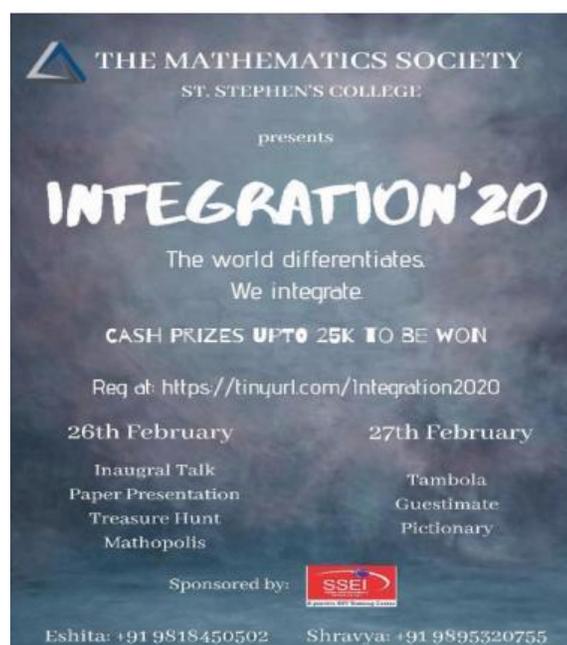
cubelelo



## INTEGRATION (Annual Fest)

Date – 26/02/2020 and 27/02/2020

No. Of Participants - 117





## Events

**Inaugural Talk** – The inaugural talk for Integration 2020 was delivered by Dr. Amitabha Tripathi (IIT Delhi) on the topic, 'Bertrand's Theorem: From Chebyshev to Erdos via Ramanujan'. It was focused on the sequence of prime numbers and their properties.

**THE MATHEMATICS SOCIETY**  
ST. STEPHEN'S COLLEGE

Integration 2020

# Inaugural Talk

by  
Dr. Amitabha Tripathi  
IIT Delhi

Topic: Bertrand's Theorem: From Chebyshev to Erdos via Ramanujan

Date: 26th February  
Time: 2pm  
Venue: NPLT

Hardik : +91 77340 52385      Anisha : +91 9207354750

St. Stephen's College

## INAUGURAL TALK

**DR. AMITABHA TRIPATHI**  
IIT DELHI

A New Method to Compute the  
Decimal Expansion of Rational  
Numbers

5TH FEBRUARY 2PM  
SEMINAR ROOM



**Paper Presentation** - It invites people from all across the college to present a paper in front of a panel of professors from the Maths department of our college. The panel chooses the best papers among the contestants. It is followed by a discussion between professors, audience and the participants.

**Treasure Hunt** – This event is held in the same way as the Treasure Hunt in September. It aims to test one's quick thinking, logical approach and ability to solve equations.

**Mathopolis**- It is a quiz on everything related with the subject of mathematics. This event aimed to test one's knowledge of mathematics and challenge the memory.

THE MATHEMATICS SOCIETY  
&  
THE QUIZ CLUB  
ST. STEPHEN'S COLLEGE

**MATHOPOLIS**

COME AS LONE WOLVES OR IN A  
PACK OF TWO!

**CASH PRIZES OF UPTO  
3K TO BE WON!**

26TH FEBRUARY  
3PM | ROOM - C

REGISTER AT:  
[HTTPS://TINYURL.COM/INTEGRATION2020](https://tinyurl.com/integration2020)

SPONSORED BY: PROMOTION PARTNER:

NAOMI- 8755397597      BHAVYA- 7084122695

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## Mathematical Tambola -

The Mathematics Society  
St. Stephen's College  
**Integration'20**  
**MATHEMATICAL  
TAMBOLA**  
27th February | 2 pm | OCLT  
Cash prizes upto 3k!!  
Register At: <https://tinyurl.com/Integration2020>  
Eshita +91 98184 50502      Shravya +91 98953 20755

## Pictionary -

THE MATHEMATICS SOCIETY  
St. Stephen's College  
*Presents*  
INTEGRATION 2020  
**PICTIONARY**  
Join us in Teams of 2  
Cross college teams are allowed  
\* 27 February | 4:30 PM | Room G  
**PRIZES WORTH 3k to be won!!**  
Register at: <https://tinyurl.com/Integration2020>

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**Guesstimate -**

**THE MATHEMATICS SOCIETY**  
 **ST. STEPHEN'S COLLEGE**  
*Presents*  
**INTEGRATION 2020**  
**GUESSTIMATE**  
INTELLIGENT GUESSING MADE FUN!  
*DATE : 27 February*  
*TIME : 4 PM*  
*VENUE : Room F*  
PARTICIPATION IN TEAMS OF 2  
LONE WOLVES ARE ALSO WELCOME!  
**CASH PRIZE OF UPTO 3K TO BE WON!!**  
*Register at : <https://tinyurl.com/Integration2020>*  
ESHITA: 9818450502                      SHRAVYA: 98953 20755