



EPEC- CLUBS

Year Report

*Name of the Team: **Ekasutram***

Main Objective of the Team: Ekasutram is the official Mathematics Club of our college, aims to improve mathematical knowledge of students through engaging activities and workshops. Our club offers students an engaging and interactive approach to learn about logic and numbers. We offer an array of captivating mathematical exercises that accommodate diverse interests and proficiency levels. Our activities made to assist you in developing your abilities, critical thinking, and teamwork.

Number of events conducted in AY 2023-2024 **4**

Name of the events:
1. Mathemagical Moments
2. Mathematics Week
3. Quizzle
4. Memematics

Number of Team Members: 25

Name of Key Organisers:
1.) Mandar Gatke
2.) Mayur Gaikwad
3.) Rudra Joshi

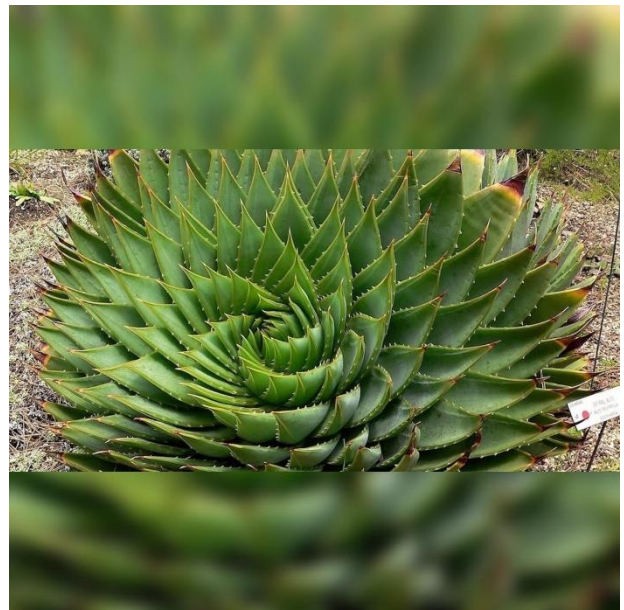
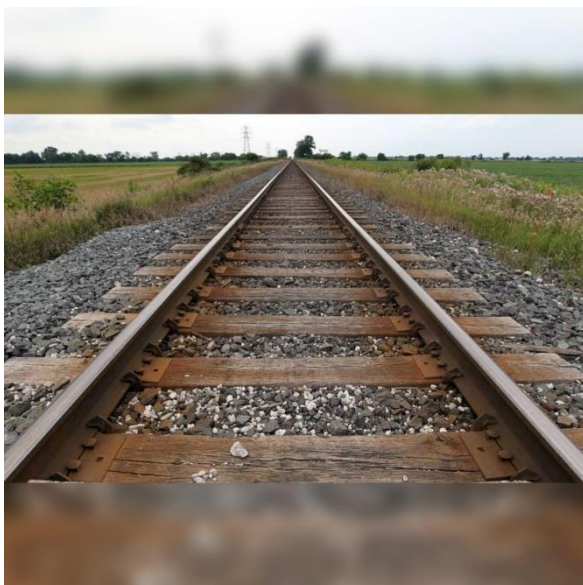
Provide the link of your Social Media Handles
Instagram: <https://www.instagram.com/ekasutram/>
Facebook: -
LinkedIn: <https://www.linkedin.com/company/ekasutram/>
Twitter: <https://twitter.com/ekasutram>
Website: -

Event 1

Name of the event:	Mathemagical Moments
Dates of event:	25th October – 3rd November (2023)
Online Platform/ Venue:	Online
Event span (hours/days)	10 days
Footfall/Total attendance	47
Name and contact of the key organiser(s)	1.) Mandar Gatke - 9356773691 2.) Mayur Gaikwad - 7725988139 3.) Rudra Joshi - 9511752046
No. of people involved in the organising committee (all levels of hierarchy included, Core team to Volunteers)	25
Objective of the event	To make people aware of the mathematical phenomena occurring around them
Brief description of the said event	Participants have to submit images of natural scenes where there is a hint of mathematics.
Key event outcomes	We got many beautiful photos where we saw mathematical phenomena happening in nature
Milestones set by the event (if any)	N/A
Name and bio of chief guest along with social media links (if any)	N/A

Add any kind of additional information or a ready report if you wish to which can be used by team Vaatchal (Optional):

Add minimum 2 photographs of the said event (Mandatory):



Event 2 & 3

Name of the event:	Mathematics Week & Quizzle
Dates of event:	Mathematics Week :18th December to 20th December (2023) Quizzle: 21st & 22nd December, 2023
Online Platform/ Venue:	Rolljak, Google Meet
Event span (hours/days)	5 days
Footfall/Total attendance	Total Average Attendance in online meetings during all events: 48+40+40+27+8 = 163
Name and contact of the key organiser(s)	1.) Mandar Gatke - 9356773691 2.) Mayur Gaikwad - 7725988139 3.) Rudra Joshi - 9511752046
No. of people involved in the organising committee (all levels of hierarchy included, Core team to Volunteers)	25
Objective of the event	To spread awareness regarding the work done by Srinivasa Ramanujan on various mathematical topics, and its applications to modern research.
Brief description of the said event	The event was carried out for 5 days. The activities were done as follows, Day 1: Movie Streaming Streamed 'The Man Who Knew Infinity' on WatchParty. Day 2: Workshop on Vedic Mathematics Conducted on google meet. Discussed importance, applications, topics and methods of faster calculations using vedic mathematics. Day 3: Seminar on Ramanujan's work. The topics in which Ramanujan was specialized were learnt by the participants in brief, with their application to modern science and engineering. Day 4: Quizzle'23 Round 1. A quiz based on logical reasoning, brainstorming, aptitude and previously learnt Ramanujan's topics on an engineering level was taken, the top 15 winners qualified for the next round. Day 5: Quizzle'23 Round 2

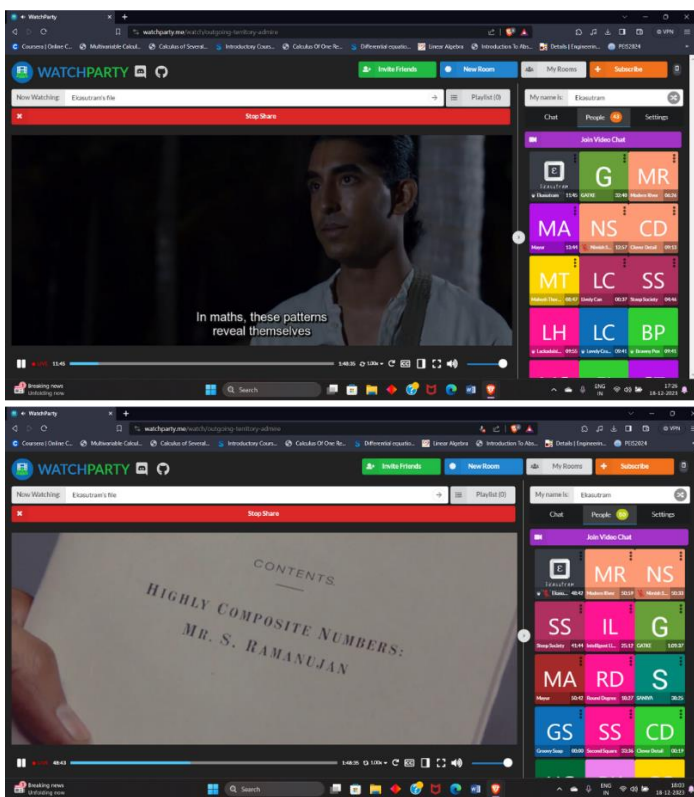
	Questions based on mathematical puzzles and aptitude was conducted with the qualified participants from Round 1. The quiz was conducted on google meet by the means of a PowerPoint Presentation. Top 3 participants were declared as winners.
Key event outcomes	People were made aware of Ramanujan's works in pure mathematics, the applications of his work were discussed among the attendees and participants.
Milestones set by the event (if any)	N/A
Name and bio of chief guest along with social media links (if any)	N/A

Add any kind of additional information or a ready report if you wish to which can be used by team Vaatchal (Optional):

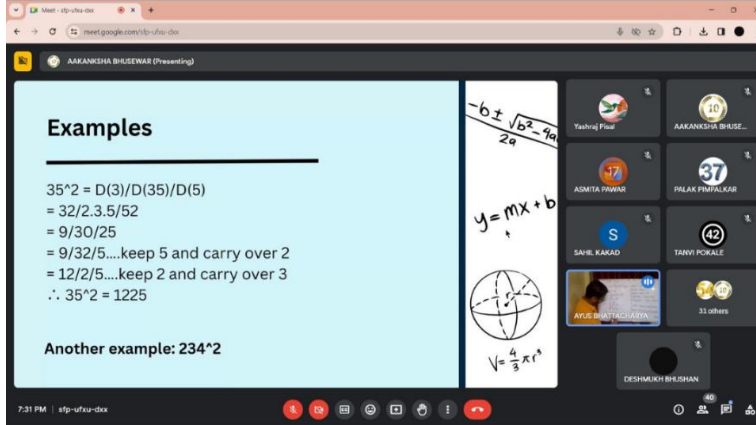
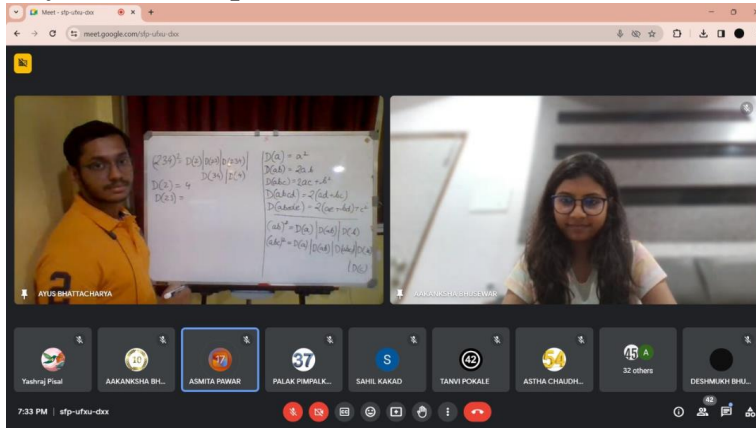
Add minimum 2 photographs of the said event (Mandatory):

The screenshots of the event meetings and online movie streaming platform are given below.

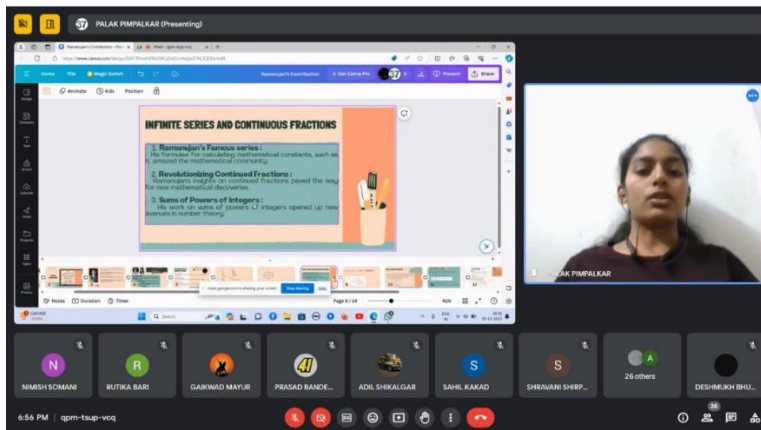
❖ **Day 1: Movie Streaming**



❖ Day 2: Workshop on Vedic Mathematics



❖ Day 3: Seminar on Ramanujan's Work



Formal Power Series

A formal power series is a mathematical concept used in various branches of mathematics, including algebra, analysis, and theoretical computer science.

The general form of a formal power series is given by:

$$f(X) = \sum_{n=1}^{\infty} a_n X^n = a_1 X + a_2 X^2 + \dots$$

Here, x is a variable, and a_0, a_1, a_2, \dots are coefficients, which can be elements from any mathematical structure. The term 'formal' indicates that we treat these expressions algebraically without necessarily assigning specific values to the variable or worrying about convergence.

PALAK PIMPALKAR (Presenting)

6:53 PM | qpm-tsup-voc

❖ Day 4&5: Quizzle '23

Instructions

If you face any issues during quiz do not panic, WhatsApp your queries. Strictly do not discuss on meet as it would disturb the others in meet.

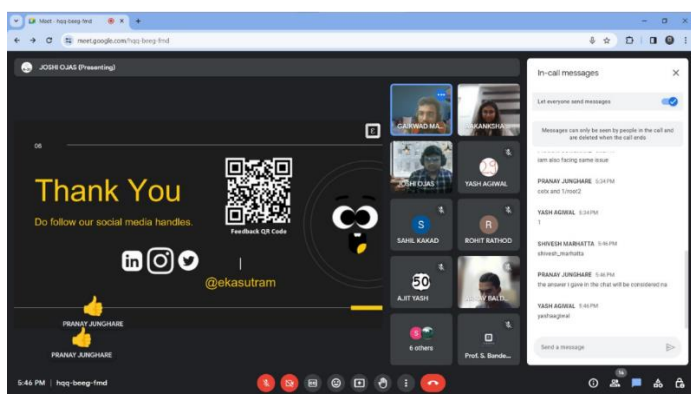
ROLLJAZZ

Activity 219: Multiple Choice

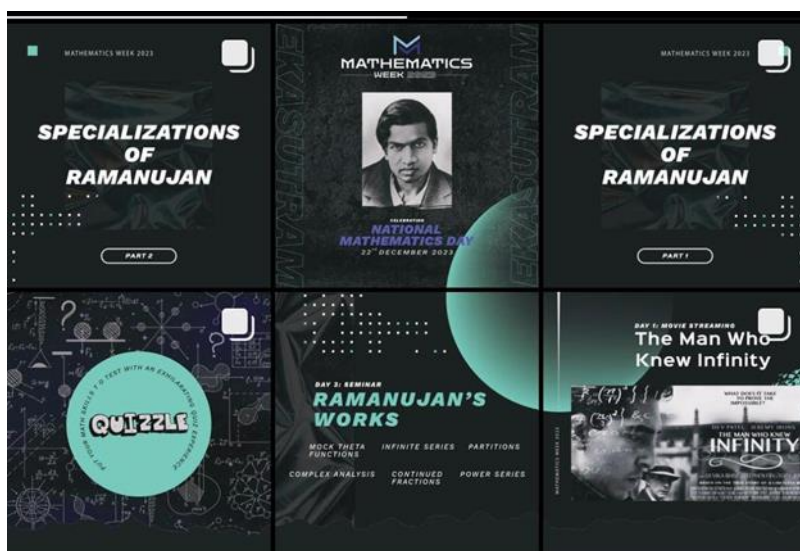
Find next term in sequence: 0, 14, 78, 252, 620, ...

75% correct

5:02 PM | hqj-beep-fnd



The Instagram campaign of Mathematics Week is shown below.



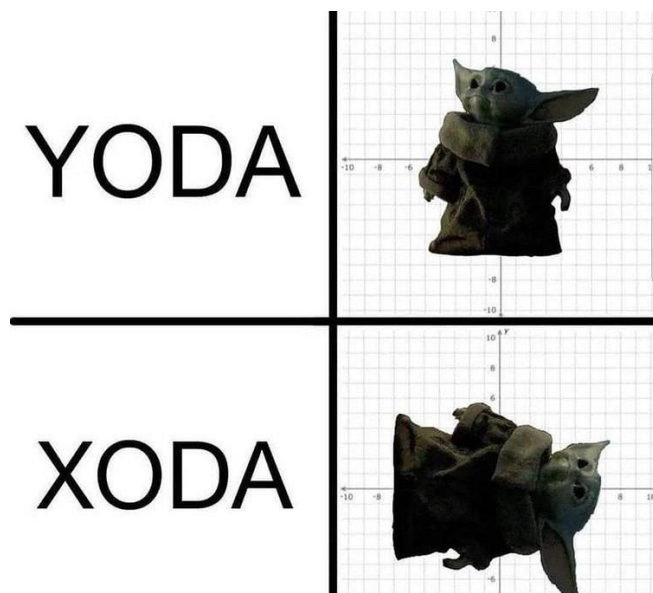
Event 4

Name of the event:	Memematics
Dates of event:	19th February – 29th February (2024)
Online Platform/ Venue:	Online
Event span (hours/days)	11 days
Footfall/Total attendance	47
Name and contact of the key organiser(s)	1.) Mandar Gatke - 9356773691 2.) Mayur Gaikwad - 7725988139 3.) Rudra Joshi - 9511752046
No. of people involved in the organising committee (all levels of hierarchy included, Core team to Volunteers)	25
Objective of the event	The purpose of this event is to broaden students' perception of mathematics beyond mere problem-solving and calculations. It aims to showcase the diverse and fascinating aspects of the subject, encouraging students to see it as more than just numbers. By engaging in

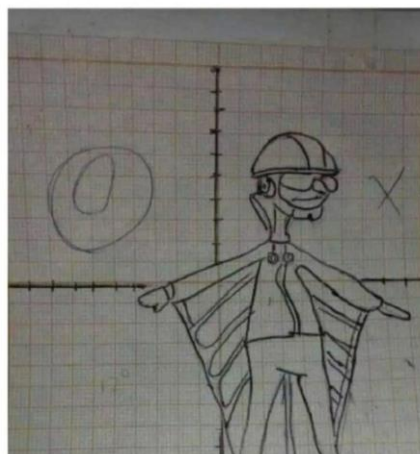
	meme-making, students will discover the fun and creative side of mathematics, potentially igniting a greater interest in the subject.
Brief description of the said event	This event revolves around creating math-related memes that are both entertaining and intriguing. Participants can craft memes that fuse mathematical concepts with humour, and then share them on their respective social media platforms.
Key event outcomes	We received numerous memes that are related to mathematics. The best ones were posted on our social handles.
Milestones set by the event (if any)	N/A
Name and bio of chief guest along with social media links (if any)	N/A

Add any kind of additional information or a ready report if you wish to which can be used by team Vaatchal (Optional):

Add minimum 2 photographs of the said event (Mandatory):



My maths teacher told me to draw a vector... and I drew it





**Alcohol and calculus
don't mix.
*Never drink and derive.***