



MATH.BIZ

REPORT 2025

June 11 to June 21, 2025

www.raisingamathematician.com
raisingamathematician@gmail.com

MATH.BIZ

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ORGANIZERS

Math.Biz 2025 was a collaboration between Raising A Mathematician Foundation, Pravaha Foundation and Mahindra University.



**RAISING A
MATHEMATICIAN
FOUNDATION**

RAM is a not-for-profit organization that promotes education in mathematics, nationwide through various initiatives. From its flagship residential mathematics camp - 'Raising A Mathematician Training Program' (RAM TP) to annual camps like Epsilon India, Roots Camp and All Girls Math Nurture Camp (AG MNC) and workshops on modules such as application of mathematics in finance, economics, computer science, and physics, RAM focuses on making mathematics appealing for gifted students and general public.

Additionally, RAM offers Math and Informatics Olympiad Training Programs that provide year-round training for students aiming to participate in the International Mathematical Olympiad. RAM also conducts Maths Circle for non-English medium school students in the suburbs of Mumbai which happens to be the first Maths Circle in India for non-English medium students. Along with this, RAM conducts Maths Circle at various locations of India like Chennai, Delhi and Nagpur.

The logo for Pravaha Foundation features the word "PRAVAHA" in a bold, gold-colored, sans-serif font. The letters are slightly stylized, with small dots above the 'A's. The logo is centered within a white circle, which is itself set against a dark red square background.

PRAVAHA

**PRAVAHA
FOUNDATION**

Pravaha Foundation is a non-profit organization that aims to bring together multiple stakeholders to tackle development issues at scale. Pravaha's major focus is towards long term issues which includes poverty and inequality, education, social innovation among children and young people. Pravaha's flagship program aims to advance high-ability and talent-related learning in India alongside leading education, social development, and policy and research partners.

The logo for Mahindra University features a red stylized 'M' icon to the left of the text "Mahindra University" in a bold, black, sans-serif font. Below the main text, the tagline "Global Thinkers. Engaged Leaders." is written in a smaller, lighter font. The logo is centered within a white circle, which is itself set against a dark red square background.

**Mahindra
University**
Global Thinkers. Engaged Leaders.

**MAHINDRA
UNIVERSITY**

Mahindra University embodies Global Thinkers and Engaged Leaders, who deeply understand their role in the world and are committed to improving lives through active participation. They live by Mahindra Rise's values of No Limits, Positive Change, and Alternative Thinking, driving their actions. Embracing Mahindra Rise, they show unwavering dedication to overcoming challenges, inspiring change, and fostering innovation. This ethos cultivates creative problem-solving and fearless exploration. Mahindra University shapes individuals who excel in their fields and contribute to society, fostering empathy, ingenuity, and responsible stewardship. This prepares them to address global challenges today and tomorrow.

KEY HIGHLIGHTS

Diversity of Participants



Gender Bifurcation



Male
52



Female
17

Place of Domicile



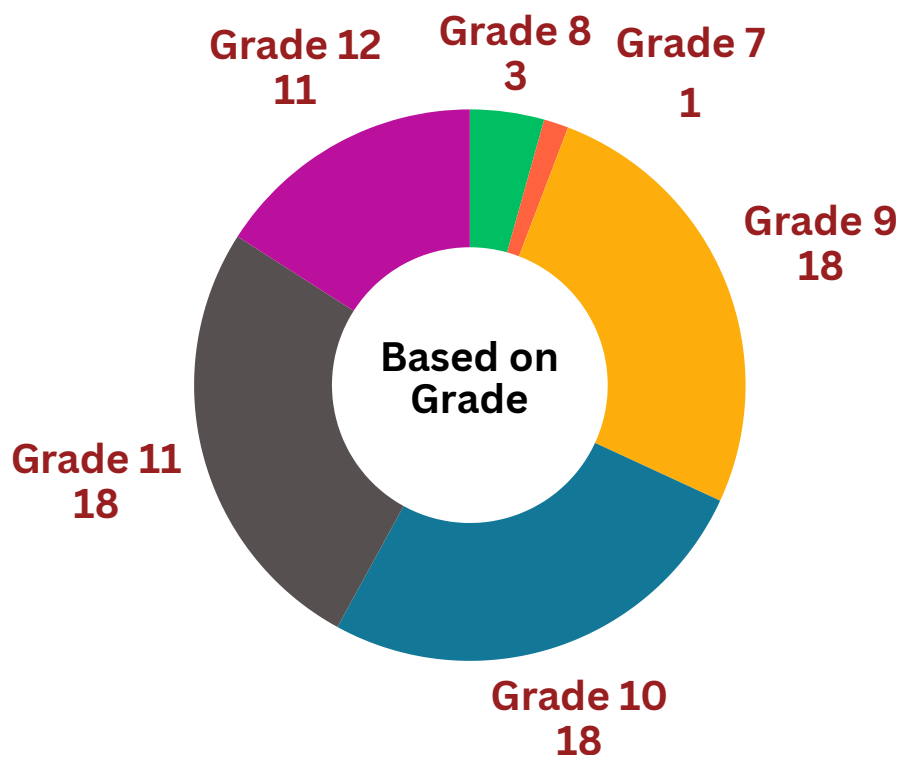
City
53



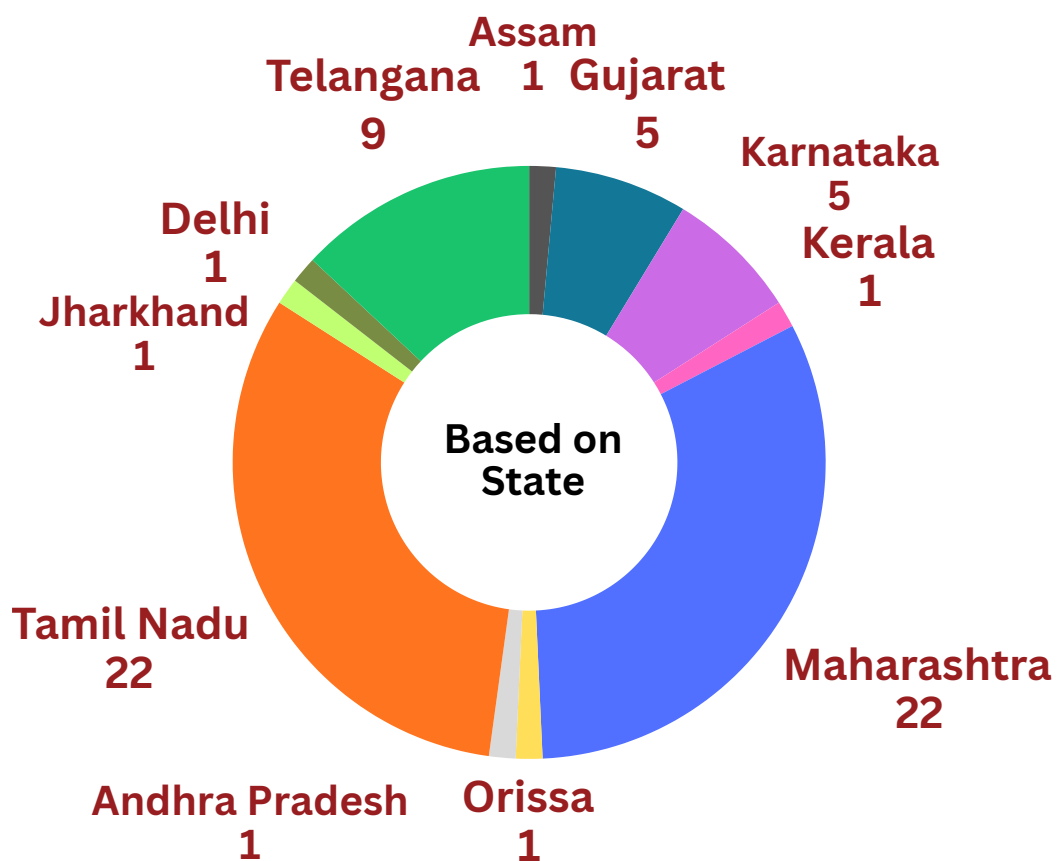
Town
13



Village
03



Diversity of Participants



Detailed Report

Objective

The primary objective of Math.Biz 2025 was to expose students to the application based aspect of Mathematics in areas like Finance, Economics and Accounting. Students often learn Mathematics without knowing where they might find its application, but once they perceive the application of Mathematics in a particular field, it becomes all the more meaningful for them to learn Mathematics. Till date, there has been no program other than Math. Biz that focuses on looking at Economics and Finance through the lens of Mathematics for school students. The goal of Math.Biz 2025 was to get students to appreciate the beauty of the intersection of Mathematics with other disciplines



Selection Procedure

Aspiring students from 22 Indian states sent applications to participate in Math. Biz 2025. Out of hundreds of applications that were received, more than hundred applications were selected after a rigorous and challenging two hour selection test.



PRE-CAMP

Before the residential camp, students actively prepared themselves by engaging with meticulously crafted preparatory notes provided by the academic team of the camp and taking the quiz based on the material shared. This was crafted to occupy students for approximately one month of the pre camp period. This proactive approach of making pre-reading materials and assignments available to participants ahead of the camp ensured that they arrived well-equipped and ready to make the most out of the learning experience.

Pedagogy and Program Schedule



The selected participants were divided into two batches based on their grades and scores. The two batches were called 'Small Caps' and 'Mid Caps'. A regular day at Math. Biz 2025 consisted of 3-4 sessions by the in-house faculty, along with 1-2 sessions by guest speakers. The sessions helped converge the speakers' expertise in different areas of mathematics. Each session was followed by a doubt clearing session which was handled by the teaching assistants. The participants were also exposed to the various career paths that can be explored in finance such as Corporate roles, Academia and Consulting through a Panel Discussion

Throughout the duration of the camp, the participants were encouraged to ask questions and analyze the reasons behind every statement and proof. The participants derived different formulae and were excited to discover something new based on their derivations. All the sessions were highly interactive. While some of the questions posed by the participants evoked amusement in the speakers, others left the speakers speechless on the level of knowledge and curiosity of the students. The questions asked clearly indicated the keen, curious and intelligent nature of the participants.

| Topics covered in the camp



SMALLCAPS

- Introduction to Game Theory
- Congruence between Life Goals and Assets
- Introduction to Financial Mathematics
- Relationship between AR, MR, and Elasticity
- Mathematical Induction
- Probability Distributions
- Central Limit Theorem
- Introduction to Portfolio Theory
- Introduction to Regression and Data Analytics
- Overview of Equities
- Methods of Proof
- Proof by induction
- Exploring Causality

MIDCAPS

- Congruence between Life Goals and Assets
- Bond Mathematics
- Mathematical Modeling of Risk
- Mathematical Induction
- Probability Distributions
- Introduction to Regression and Data Analytics
- Portfolio Theory with Matrix Algebra
- Central Limit Theorem
- Financial Derivatives
- Portfolio Theory with Matrix Algebra
- Methods of Proof
- Proof by induction
- Exploring Causality

COMBINED SESSIONS

- Cost Functions & Introduction to Calculus
- Elasticity of Demand
- Central Tendency and Dispersion
- Introduction to Algorithmic Thinking
- AI in Fintech
- Introduction to Macroeconomics
- Introduction to Behavioral Economics
- Covariance and Correlation
- Logic and Mathematics
- Game Theory

| Speaker Line Up



DR. HARIHARAN RAMASUBRAMANIAN

Asst. Prof. at Frankfurt School of Finance and Management and Co-founder of RAM Foundation.

He took sessions on Cost functions and Intro to Calculus, Intro to Game Theory, Elasticity of demand, Central Tendencies and Dispersion, Behavioural Economics, Bond Mathematics, Mathematical Modelling of Risk, Covariance & Correlation, Regression and Data Analytics



CA JAYAPRAKASH RAJANGAM

Chartered Accountant, M&A Consultant, and Chairman of RAM Foundation.

He took sessions on the Congruence between Life Goals and Assets.



CA HARISH MENON

Chartered Accountant, Co-founder – House of Alpha

He took sessions on Financial Derivatives and an Overview of Equities.



DR. ANJALI RAJAN

Assistant Professor at Mahindra University School of Management and IIM alumni

She took sessions on Macro economics and Measurement of Poverty and inequality



MR. VINAY NAIR

Co-founder of RAM foundation, founder of Vichar Vatika, and director of Epsilon India

He took sessions on Methods of proof and Mathematical Induction



MR. MOKSHIT KOTHARI

RAM Alumni, CA aspirant and Actuarial aspirant

He Introduced students to Financial Math, Exploring Causality, Portfolio Theory and Matrix Algebra



MR. KARAN AGRAWAL

Dual degree in Math & CS from BITS Pilani; RAM faculty and alumni; now a Quantitative Analyst at a global investment firm.

He taught Probability Distributions to campers

| Guest Speaker Line Up



CA S. G. CHANDRAMOULEE

Leading a 300+ member finance team for the Trading business across Chennai, Manila, and Krakow, with strong expertise in shared services, SAP implementation, and global team leadership.

He took a session on 'Life of a Chartered Accountant'



DR. VENKATESH NAGAR

KPMG Professor of Accounting and Teitelbaum Research Scholar at Ross School of Business of University of Michigan

He took sessions on the Algorithmic Thinking and AI



DR. (RAM) N. V. RAMANAN

An Associate Professor of Accounting at the Indian School of Business (ISB) and PhD in Accounting from the Kellogg School of Management, Northwestern University

He taught Game Theory in his sessions

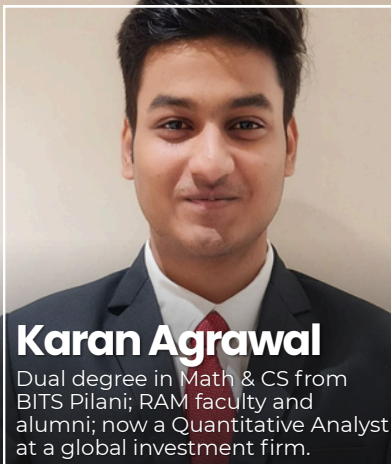


MS. NILAM BHOJWANI

An undergraduate student pursuing B.Tech in Artificial Intelligence and Machine Learning.

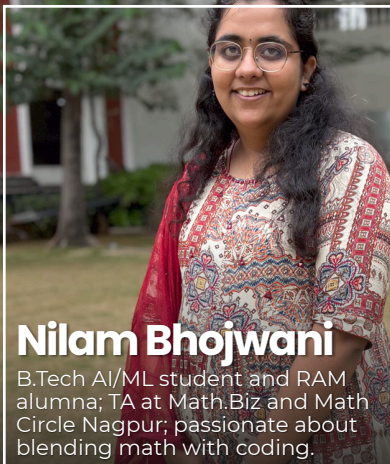
She took session on AI in Fintech

Teaching Assistants



Karan Agrawal

Dual degree in Math & CS from BITS Pilani; RAM faculty and alumni; now a Quantitative Analyst at a global investment firm.



Nilam Bhojwani

B.Tech AI/ML student and RAM alumna; TA at Math.Biz and Math Circle Nagpur; passionate about blending math with coding.



Vishal Singh

Master's student in Mathematics at BHU; enjoys teaching students across grades.



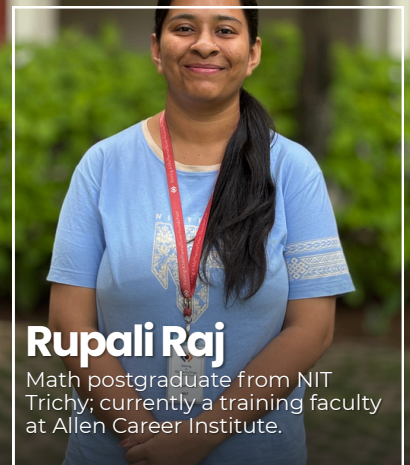
Ravindrasingh Chauhan

Second-year M.Sc. Mathematics student at IISER Bhopal with a keen interest in exploring diverse math fields.



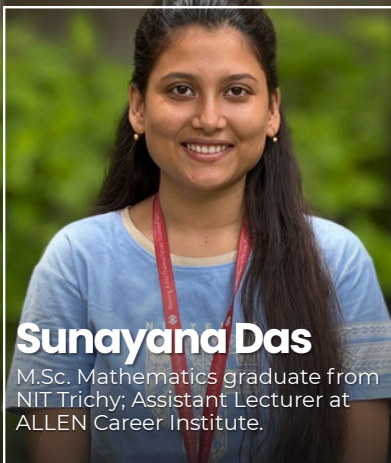
Sofia Haider

Mathematics postgraduate from NIT Trichy; passionate about applied mathematics and problem-solving.



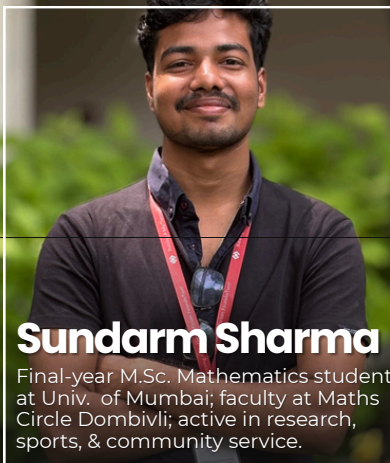
Rupali Raj

Math postgraduate from NIT Trichy; currently a training faculty at Allen Career Institute.



Sunayana Das

M.Sc. Mathematics graduate from NIT Trichy; Assistant Lecturer at ALLEN Career Institute.



Sundarm Sharma

Final-year M.Sc. Mathematics student at Univ. of Mumbai; faculty at Maths Circle Dombivli; active in research, sports, & community service.



Vaishali Singh

Master's student in Mathematics & Scientific Computing at NIT Allahabad; interested in visualizing math through coding.

Student Engagement and Team Activities



Beyond the academic rigor and mathematical depth of Math.Biz 2025, the camp laid emphasis on fostering collaboration, leadership and all-round development. As a part of co-curricular competitions, students were divided into 9 teams, each mentored by a Teaching Assistant

Each team nominated participants across various competitions:

- Badminton Doubles (2 players)
- Chess (2 players)
- GK Quiz (3 players)
- Debate (1 speaker)

These events not only encouraged strategic thinking and teamwork but also brought out the sporting spirit and intellectual agility of the campers. Points were awarded based on performance: 30 for first place, 20 for second, and 10 for third. The cumulative scores determined the overall team rankings.

The winning team was awarded a special prize - a book signed by former RBI Governor Dr. Y.V. Reddy, a fitting recognition that underscored the intersection of mathematics, policy, and leadership.



Conclusion

The syllabus taught to the participants was vast - from blockchain to actuarial science. The level of the topics were that of graduate and CA entry level courses. The participants were provided with quite a lot of food for thought for the coming days, and will apply the real world tools they learnt, in their future endeavors.

Math.Biz aims to bring the use of core mathematics in finance, business and economics to light and provide participants with an arena of careers and opportunities that await their curious minds.



Contact Us

Thank You!

We extend our heartfelt gratitude to all the participants, parents, volunteers, and supporters who made this camp a memorable and impactful experience. Your enthusiasm, energy, and commitment is what made it truly special.

We look forward to many more such enriching journeys together!

Stay connected with us for updates and upcoming events:



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 [www.raisingamathematician.com](#)

PHONE :

9987375773

EMAIL :

raisingamathematician@gmail.com