Raising A Mathematician Foundation®

REPORT

RAM TP 2026

May 24 to 30, 2026

Raising A Mathematician Training Program - a residential Math Camp engaging students in advanced mathematical thinking through collaborative problem-solving and enriching activities.

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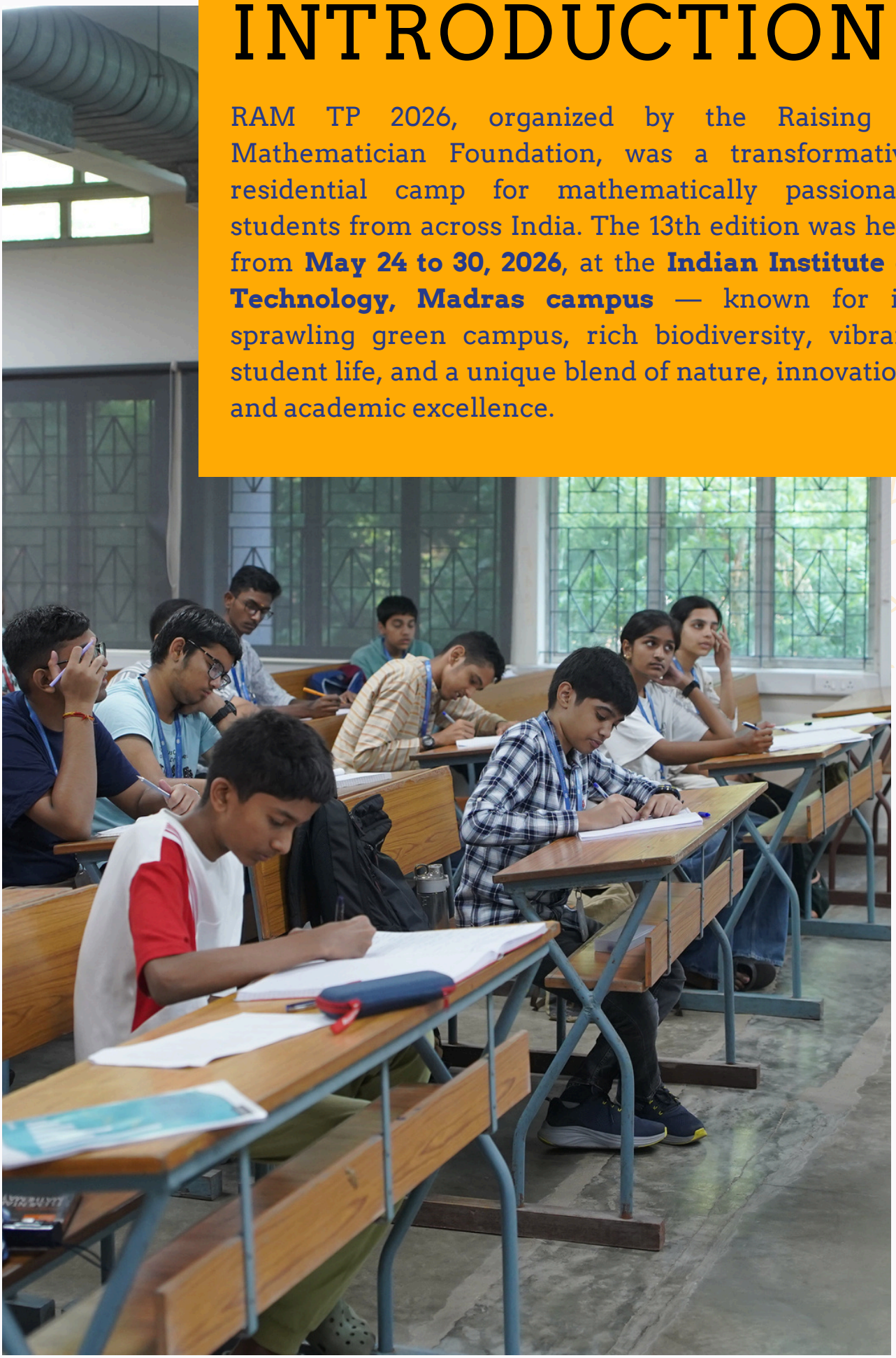
INTRODUCTION

RAM TP 2026, organized by the Raising A Mathematician Foundation, was a transformative residential camp for mathematically passionate students from across India. The 13th edition was held from **May 24 to 30, 2026**, at the **Indian Institute of Technology, Madras campus** — known for its sprawling green campus, rich biodiversity, vibrant student life, and a unique blend of nature, innovation, and academic excellence.



DETAILED REPORT

OBJECTIVE

RAM TP 2026 aimed to immerse participants in rigorous yet joyful mathematical exploration. Through challenging problems, discussions, and exposure to mathematical research, the camp nurtured students' analytical abilities and mathematical curiosity. RAM TP's mission is to identify mathematically inclined students and kindle their passion for the subject by fostering critical thinking and deep engagement. Indian Institute of Technology, Madras provided an inspiring campus environment that reflected its ethos of excellence, innovation, and motivation, encouraging learners to explore, collaborate, and strive for greater achievements.

SELECTION PROCEDURE

RAM TP 2026 received a strong response from students nationwide. A multi-step selection process included written applications, teacher recommendations, and evaluation of the student's mathematical interests. Selected participants were those who demonstrated strong potential and enthusiasm for exploring mathematics.

KEY HIGHLIGHTS

01 Indian Institute of Technology, Madras provided an inspiring campus environment that reflected its ethos of excellence, innovation, and motivation, encouraging learners to explore, collaborate, and strive for greater achievements.

02 Over 20 unique sessions across number theory, combinatorics, projective geometry, block chains, Gaussian integers, and more.

03 Distinguished mathematicians and scientists including **Dr. S. Muralidharan, Dr. Ashwin Guha, Mr. Bhas Bhamre, Dr. Sai Jaganmohan** and many more along with distinguished guest speakers.

04 Talks on both pure mathematics and applied mathematics such as understanding Riemann Zeta function and entropy, astronomy etc.

05 Interactive informal sessions: **Life Journey Talks** by Teaching Assistants and faculties.

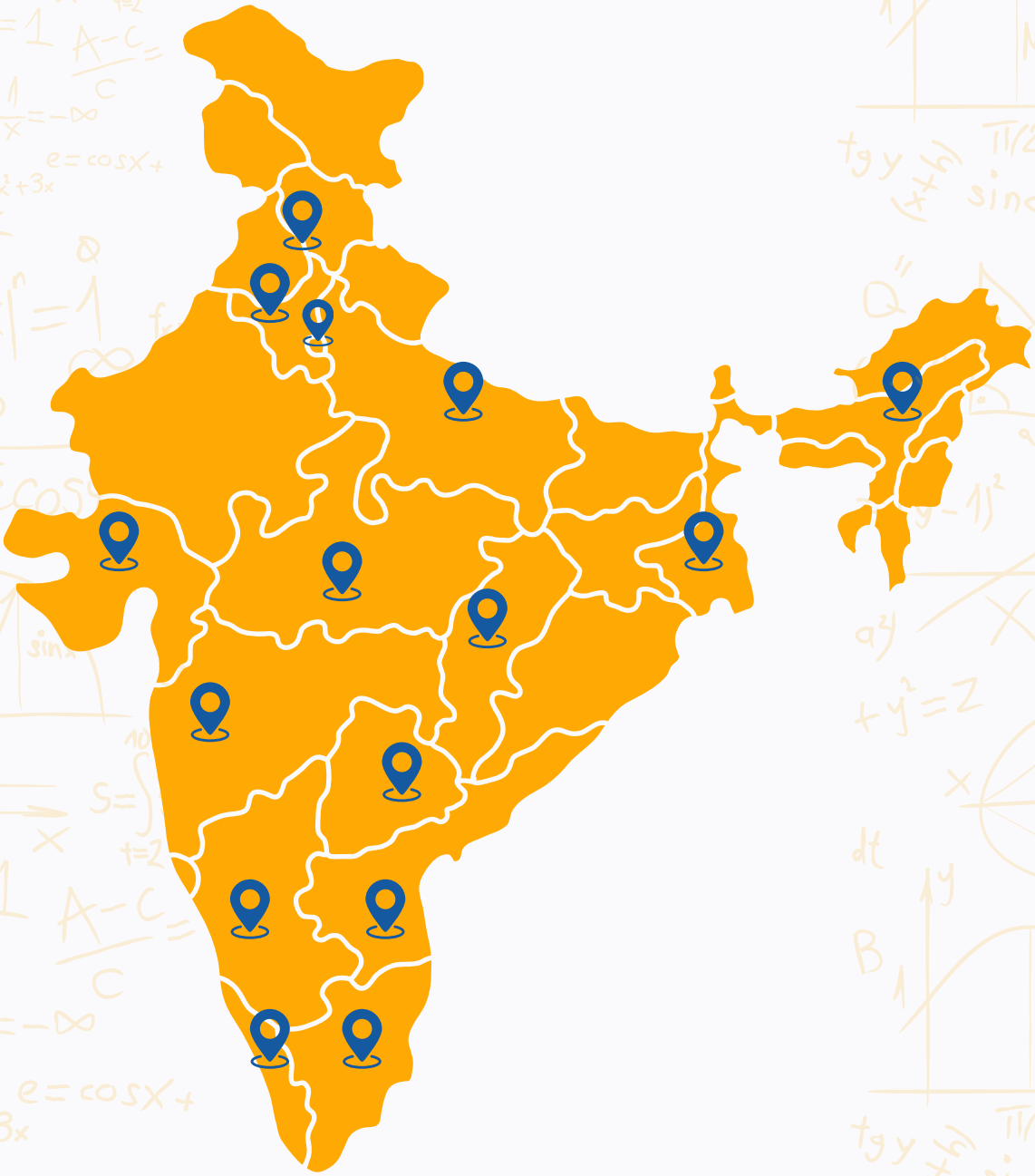
DIVERSITY

Gender

Male
78

Female
31

States



PEDAGOGY AND PROGRAM SCHEDULE

RAM TP 2026 was structured as a residential camp at IIT Madras. Students were grouped into five batches – A, B, C, D and D+ – each exploring topics tailored to their level of mathematical maturity.

Academic sessions ran throughout the day with a mix of lectures, problem-solving sessions, and group discussions. Post-dinner sessions included informal discussions, TA-led explorations, and talks on personal journeys in mathematics.

The program encouraged students to explore advanced mathematical ideas in a supportive yet intellectually stimulating environment. Sessions were designed to be interactive and exploratory, moving beyond traditional rote learning.

Alongside the core student schedule, RAM TP 2026 integrated an extensive series of parent webinars designed to navigate future education and career pathways. Through these interactive evening forums, parents connected directly with a diverse group of expert speakers across industry and academia, bridging theoretical mathematics with real-world applications in areas like Artificial Intelligence, technology, financial engineering, and astrophysics. These sessions addressed pressing familial questions—ranging from profile building and balancing academic stress to exploring multidisciplinary options and virtual university offerings—ensuring families were comprehensively supported in cultivating their children's unique talents.

TOPICS EXPLORED

- Gaussian Integers and Sum of Two Squares Problem
- Brahmagupta's Varga Prakriti Pell's Equation
- Combinatorics
- Graph Theory
- Number Construction Challenges
- Astronomy
- Constructible Polygons
- Three Classical Problems of Antiquity
- Projective Geometry
- Introduction to Group Theory
- Linear Algebra
- Euler's Infinite Descent
- Entropy and Time

Each batch had a tailored curriculum that exposed them to both classical and contemporary mathematical challenges. Sessions often bridged pure mathematics with real-world applications.

Students received pre-reading material and assignments a month in advance. This helped them build foundational understanding and engage more effectively during the camp.

PARENT SESSIONS TOPICS EXPLORED

Further, following is the list of themes discussed in the parents sessions of RAM TP 2026

- Profile building for middle and high schoolers
- Higher education planning for Indian and foreign universities
- Career options built on math (Finance, Data Science, AI, and Actuarial Science)
- Academic insights and offerings from IITs and private universities
- Alumni and research scholar experiences on navigating career paths
- Managing academic pressure and supporting teen development
- Scholarships, financial planning, and dual-degree options
- Math Olympiad preparation and resources
- Technology entrepreneurship and competitive quant internships

SPEAKERS

Dr. S. Muralidharan
Retd. Computer Scientist and was the Chief Examination Coordinator for IOQM

Led interactive sessions on Combinatorics, led the exploration of Almost Isosceles Right Triangles and monochromatic triangles problem. His logical depth and elegant proofs were central to the camp.

Dr. Ashwin Guha
PhD in Computer Science from IISc, Bengaluru

Conducted multiple sessions on projective geometry. His integration of geometry and perspective amazed students in visualization while engaging in logical reasoning.

Mr. Bhas Bhamre
Founder of Bhas Bhamre Academy in Nashik

Spanned number theory, Gaussian integers, Sum of Two Squares problem and creative puzzles. His inquiry-based style encouraged exploration and independent thinking.

Dr. Sai Jaganmohan
Rishi Valley School Physics and Mathematics Teacher

Introduced three classical problems of antiquity and led the exploration of constructability of polygons. Given a beautiful introduction to group theory using how geometry arises to algebras from three classical problems of antiquity.

Mr. Vinay Nair
Co-founder of Raising a Mathematician Foundation

Engaged students withBrahmagupta's methods of solving indeterminate quadratic equations such as Varga Prakriti and the Bhavana.

Mr. Aadityan Ganesh
RAM Alumni, PhD student at Princeton University

Explored block chains focusing on ledgers

Dr. K. V. Subrahmanyam
Professor at Chennai Mathematical Institute

Led a deep, interactive dive into linear algebra, focusing on complex 5-variables inequalities.

Dr. Meghana Narse
Assistant Professor, CSE, IIT Madras

Brought Graph theory into life starting with a card game, covering bipartiteness, adjacency matrices and Breadth - First Search.

Dr. S. R. Santhanam
President of AIMER and prominent figure at AMTI

Led a highly engaging and intriguing session on puzzles-type problems on squares.

Dr. Prajakta Nimborkar
Associate Professor at Chennai Mathematical Institute

Led a deep, interactive dive into linear algebra, focusing on complex 5-variables inequalities.

Dr. Sivakumar Srinivasan
Head, Department of Applied Mechanics, IITM

Taught algorithmic thinking and efficient problem-solving through interactive guessing games that led students to discover the concept of binary search.

GUEST SPEAKERS

Mr. Matt Weinberg — Associate Professor in Computer Science at Princeton University

Explored how decentralized ledgers can counter "Big Tech" monopolies and lower transaction pricing for everyday users.

Mr. Atharv Tambade — Physics PhD student at Georgia Institute of Technology

Explored how fundamental concepts of entropy and time are deeply related in understanding the physics of our universe. Led an interactive session on astronomy.

Ms. Elena Gribelyuk — Computer Science PhD student at Princeton University

Explored how data systems store data using minimal computational memory through a practical session, introducing students to streaming algorithms.

Mr. Mayank Pandey — Mathematics PhD student at Princeton University

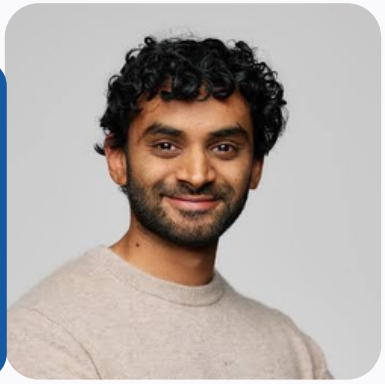
Explored counting and bounding the number of primes up to a given limit.

Mr. Kostas Doumanidis — ECE PhD student at Princeton University

Highlighted how everyday internet infrastructure vulnerabilities can be exploited to launch stealthy routing attacks against blockchains.

Mr. Pranav Garimidi — Theoretical Computer Science Researcher

Explored scaling blockchain consensus via multiple concurrent proposers and the underlying cryptography and privacy properties.



PARENT SESSION GUEST SPEAKERS

Ms. Bhuvana Arun Founder, 'The Path Ahead'	Shared structural methods for middle and high school profile building and detailed the processing of university applications across major global destinations and domestic options.
Mr. Vinay Nair Founder, Raising a Mathematician Foundation	Finalized advanced higher education planning frameworks and anchored panels reinforcing that early career decisions remain inherently reversible.
Dr. Hariharan R. Academic Head, RAM Assistant Professor, Frankfurt School of Finance and Management	Explained how a master's foundation in mathematics acts as a business launchpad for advising global corporations on adopting cutting-edge technologies like AI and Blockchain.
Mr. Rajiv Jha Associate Partner, McKinsey & Company	Finalized advanced higher education planning frameworks and anchored panels reinforcing that early career decisions remain inherently reversible.

Mr. Ara Ramalingam Data Strategist, Serial Entrepreneur, and Investor	Shared structural methods for middle and high school profile building and detailed the processing of university applications across major global destinations and domestic options.
Dr. Pradeep Kumar S.P. Multidisciplinary Machine Learning Lead, Google	Shared insights from his journey across dentistry, biology, and IT to guide parents on how to authentically nurture and protect multidimensional curiosity without causing unnecessary pressure.
Mr. Arunachalam Rajaraman Consulting Actuary & Cost Accountant	Introduced parents to financial modeling, risk frameworks, and professional opportunities within the domain of investment, actuarial science, and insurance regulations.
Prof. Ajit Bhand Associate Professor, IISER Bhopal	Discussed geometry and number theory education, demonstrating how advanced undergraduate concepts can be effectively broken down for middle school students via math circles.
Prof. Krishna S. Professor of Computer Science and Engineering, IIT Bombay	Provided critical academic insights into competitive computer science domains and evaluated the dense intersection of mathematics within core engineering paths at top IITs.

Dr. Anand Narayanan Professor of Earth and Space Sciences, IIST	Shared methods for popularizing astronomy and physics among high school students using outreach initiatives, science fiction, and historical context.
Prof. Sundararajan Natarajan Professor of Mechanical Engineering, IIT Madras	Highlighted the coordination of the camp and discussed the profound intersection of mathematical passion with engineering design and stress analysis.
Prof. Alok Shukla Prof. Ajaykumar Prof. Divakaran Prof. Mohan Prof. Priyavrat Deshpande Prof. Raghavan Prof. Soumya Dey	Collectively represented top-tier universities (Ahmedabad University, Azim Premji University, Chennai Mathematical Institute, Krea University) to showcase unique undergraduate curricula, degree paths, and specialized research choices.
RAM Alumni & Research Scholars: Mihir Jewalikar CA Mokshit Kothari Sanaya Gandhi Sharvani Jadhav Siddhant Shah Vishal Singh	Shared personal retrospective journeys illustrating how self-awareness, volunteering, and dual skill sets helped them secure roles from data science and quantitative research to PhDs at IIM.

TEACHING ASSISTANTS

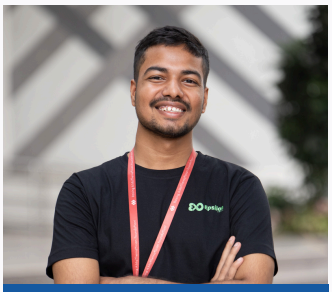
Engaged in both academic and life-sharing sessions, including personal journey talks, offering mentorship and relatability to students.

Gottipati Akhila
Ph.D. student at IIT Madras

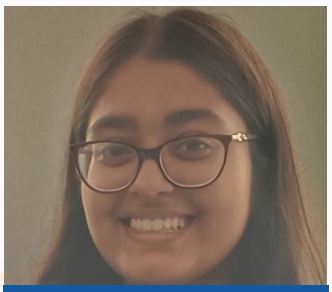
Aditi Choudary
Ph.D. student at IIT Madras

Vishwa S.
Ph.D. student at IIT Madras

Sarusree S.
Ph.D. student at IIT Madras



Sundarm Sharma
Mathematics postgraduate



Chakyusha Saisrita Mittra
Undergraduate B.Tech from VIT

M. Arrutselvi
NBHM Post-Doctoral Fellow at IIT Madras

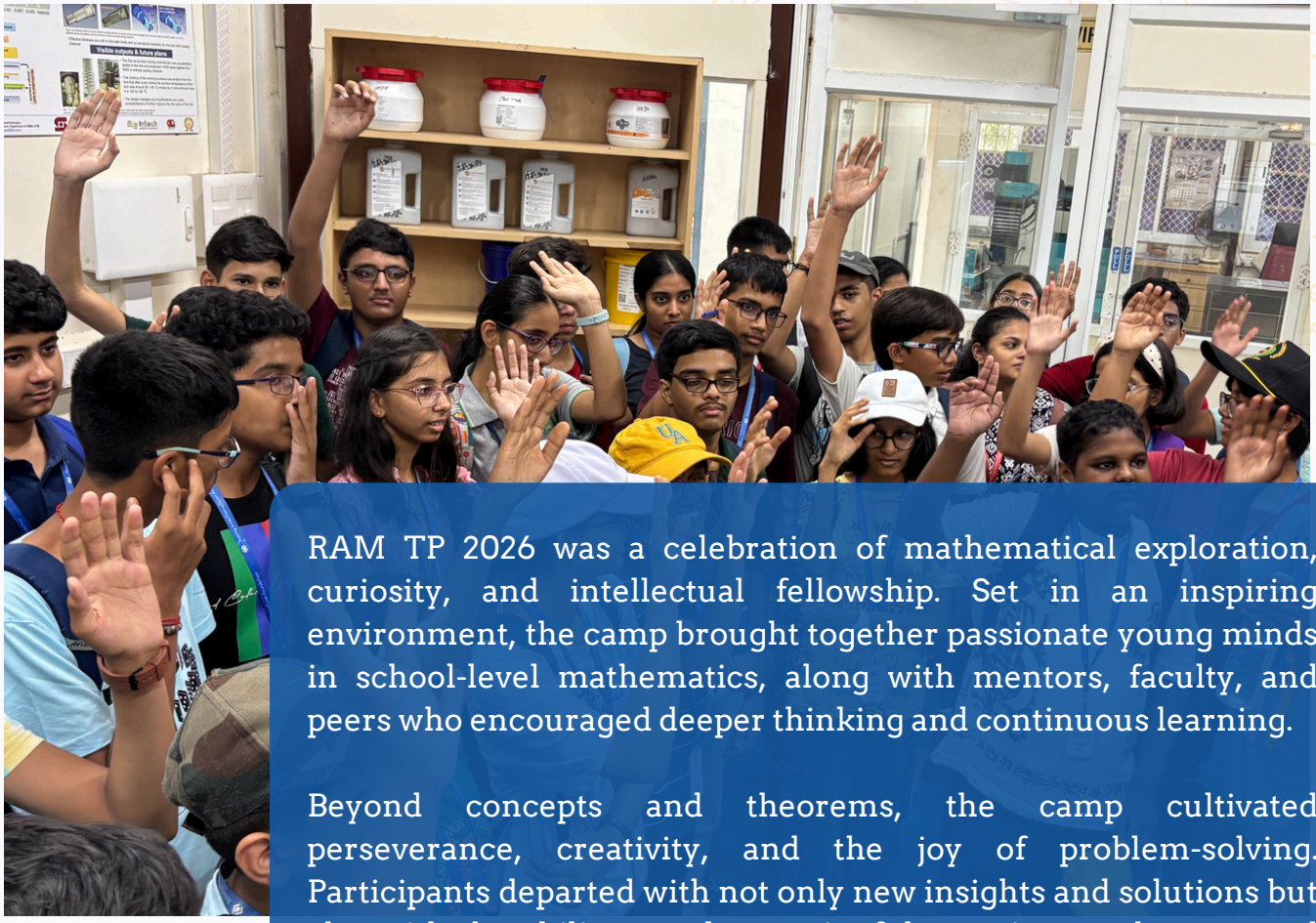
Ganesh Chakali
B.Sc Mathematics, B.Ed graduate

Pratik Chilap
Statistics Postgraduate

Ravindra Singh Chauhan
Mathematics Postgraduate

Arya Lamge
B.Tech. graduate in Aerospace Engineering, currently working in Operations Research.

CONCLUSION



RAM TP 2026 was a celebration of mathematical exploration, curiosity, and intellectual fellowship. Set in an inspiring environment, the camp brought together passionate young minds in school-level mathematics, along with mentors, faculty, and peers who encouraged deeper thinking and continuous learning.

Beyond concepts and theorems, the camp cultivated perseverance, creativity, and the joy of problem-solving. Participants departed with not only new insights and solutions but also with the ability to ask meaningful questions and a renewed appreciation for mathematics. They became part of a growing community of learners who view mathematics not merely as a subject, but as a journey of discovery and a way of thinking.

Crucially, the camp extended this impact to families through dedicated parent sessions, bridging academic mathematical maturity with future education and career mapping. By interacting with cross-domain speakers from industry and academia, parents gained actionable insights on profile building, emerging technological trends like AI, and managing teenage academic pressure, aligning home support with their children's aspirations.

Additionally, RAM TP 2026 was an inspiring convergence of mathematics, exploration, and community learning. The IIT Madras campus provided an intellectually stimulating and vibrant environment, blending academic excellence with a spirit of innovation and collaboration, allowing participants to deepen their problem-solving abilities while engaging in meaningful mathematical experiences.

SUPPORTERS

Indian Institute of Technology (IIT), Madras

Indian Institute of Technology, Madras, one of India's premier institutions for research and innovation, offered an inspiring campus that blended academic excellence with natural serenity. Its expansive green landscape, vibrant learning spaces, and culture of curiosity created an ideal environment.

We sincerely thank all the parents who supported the RAM TP Camp through their generous donations. Their valuable contribution helped us organize and conduct the camp successfully and continue our efforts to provide meaningful learning opportunities to students.

CONTACT US

raisingamathematician.com

@RAMFoundation

@/raising-a-mathematician-foundation

www.raisingamathematician.com

@raisingamathematician

@raisingamath

raisingamathematician@gmail.com