



2026 Report



 Raising A Mathematician Foundation[®]



May 03 to May 17, 2026

www.epsilonindia.org



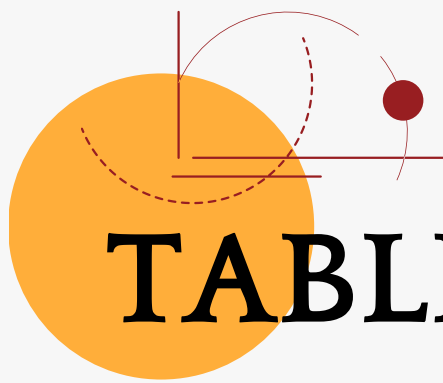
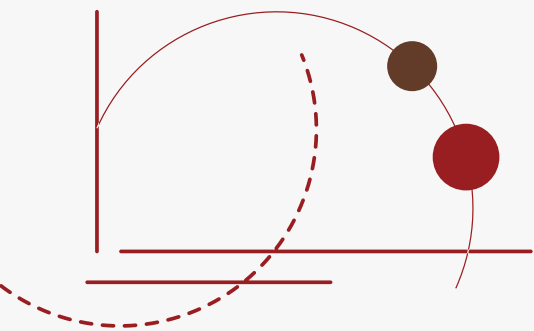


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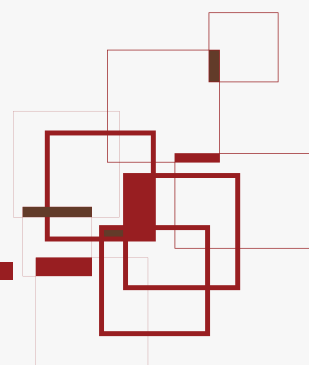
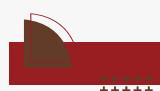
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Introduction

Building on the continued success of Epsilon India since 2021, the Raising A Mathematician (RAM) Foundation was enthusiastic about organizing the 2026 edition of the camp. Epsilon India stands as the sole summer camp in the country catering to exceptionally talented Math students aged 9 to 13. The camp was hosted by Krea University in Sri City, Andhra Pradesh. Students were selected through a demanding evaluation procedure, which included an Exploratory test and an Algebra test.

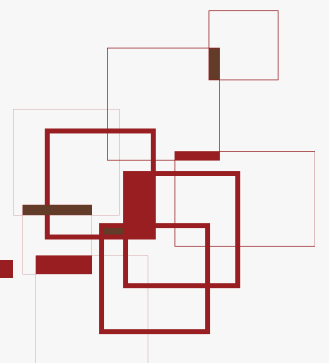
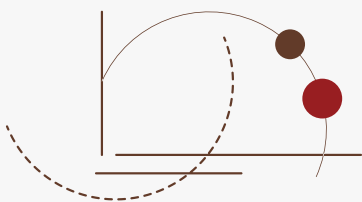


Objective

The camp is dedicated to providing an early and advanced immersion in mathematics for students of exceptional ability who find their customary school environments insufficiently challenging. Its curriculum and pedagogical approach are meticulously crafted to meet the distinctive intellectual needs of these remarkable learners. Beyond the cultivation of mathematical excellence, the camp nurtures meaningful peer interaction, fostering a vibrant community where academic growth is inseparable from the development of social grace and emotional resilience.

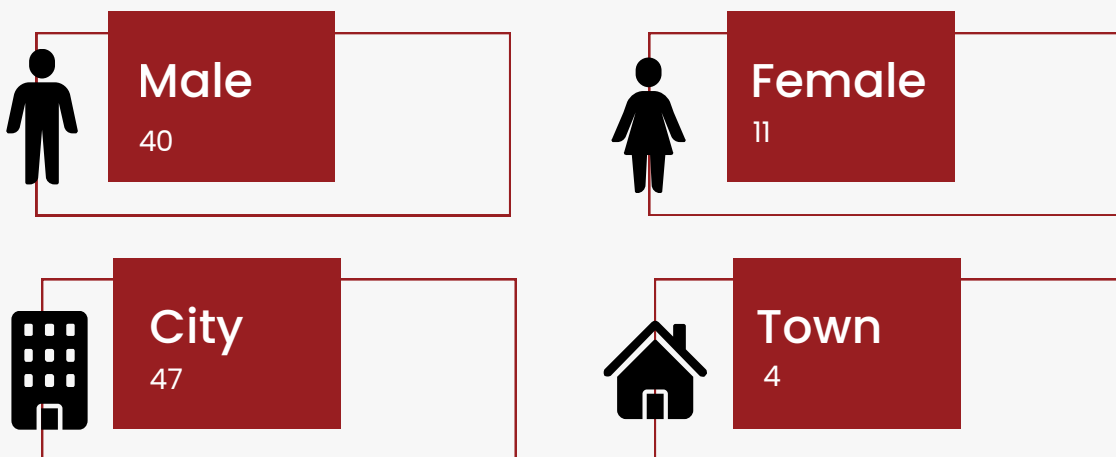
Daily Schedule of the Camp

Each day commenced after breakfast at 8:30 am, unfolding into three immersive sessions of ninety minutes each, interspersed with dedicated intervals for assignments and reflection. Ample respites punctuated the schedule, including invigorating outdoor recreation where students engaged in spirited pursuits such as football, basketball, and volleyball. The formal programme extended until 7:45 pm, after which participants gathered for dinner and lingered in informal discussions for well over an hour. Lights were dimmed at 10 pm.

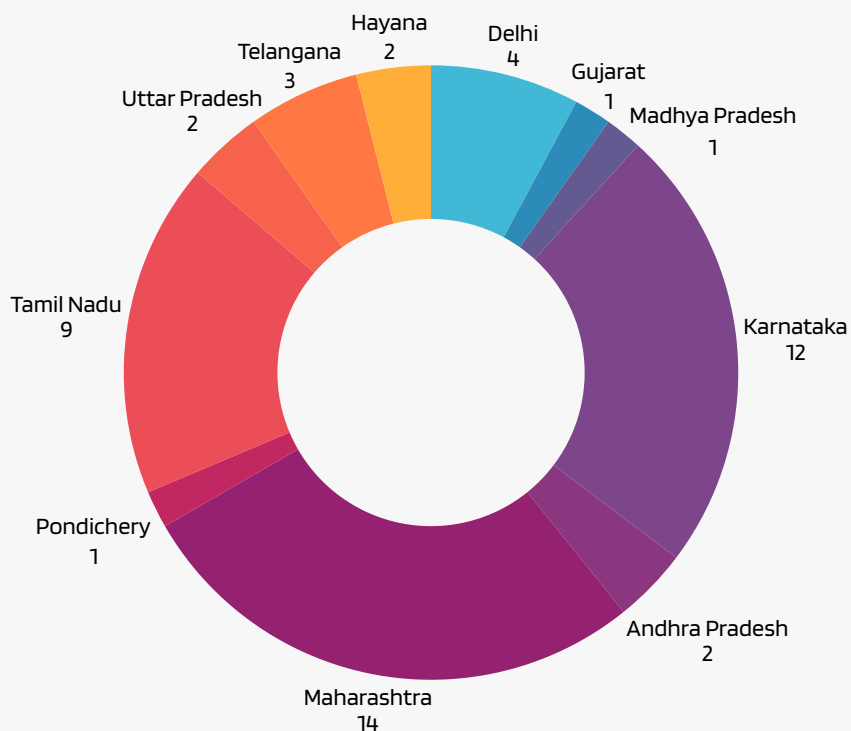


Key Highlights

The Epsilon India Camp 2026 proved to be an ideal environment for participants to hone their mathematical skills, develop critical thinking, and forge meaningful connections with peers and mentors. By offering a holistic approach to education that encompasses academic, social, and emotional growth, the camp has left a lasting positive impact on the young mathematical talent it nurtured.



State wise diversity



Structure of the camp

Brahmagupta Batch Summary



Prof. Rishi Vyas — Multivariate Polynomials

The course explored a natural generalisation of single-variable polynomial factorisation: can we factorise polynomials with two or more unknown variables into simple factors? Students learned how to order monomials using various monomial orders and how to divide polynomials with this machinery. The course ended with a cursory introduction to how these techniques inform mathematical tools called Buchberger's algorithm.

Prof. Sourav Sen — Introduction to Ring Theory

Prof. Sen introduced ring theory through the fundamental example of the integers with regular addition and multiplication. Students were then shown fundamental ideas such as ideals, homomorphisms of rings, quotient rings, and the first isomorphism theorem for rings. The course was designed to introduce advanced abstraction with accessible examples, including the real numbers, the complex numbers, and sets of polynomials and matrices.

Prof. Atreyee Bhattacharya — Introduction to Complex Numbers

Prof. Bhattacharya gave a fascinating one-week course motivating the need for imaginary and complex numbers through a journey into the history of mathematics and an aside into solving cubics. Students discovered the great algebraic and geometric properties of complex numbers, with unique explanations on how to visualise addition and multiplication. The course ended with a completely geometric problem regarding the diagonal lengths of a regular polygon, attacked by an unconventional path using complex numbers.

Prof. Gangotryi Sorcar — Geometry of Surfaces

The second week began with an engaging inquiry-based project involving oranges, motivating fundamental topological quantities such as the Euler characteristic using tilings of spheres. The course included paper demonstrations that a Möbius band has only one edge and one face, and clay activities showing that fundamental polygons can give rise to hollow one-holed and two-holed doughnuts. Students worked through proofs to show that a sphere has Euler characteristic 2 and a torus 0. Descartes' theorem on angle defects was discussed and proved, leading up to the classification of all orientable surfaces and an application to the seven colour theorem.





Prof. Ajit Bhand — Constructible Numbers

Prof. Bhand's course asked a central question: given a straight-edge and a compass, and just a line segment of length 1, what numbers can be constructed? Students discovered that many known numbers like rationals and square roots are constructible, and that adding, subtracting, multiplying, and dividing two constructible numbers yields new constructible numbers, as does taking the square root. The course ended with students using these tools to construct a regular pentagon, employing the unexpected fact that the golden ratio is constructible.



Prof. CP Anil Kumar — Conics and Cubics

Prof. Kumar offered a classic yet accessible introduction to coordinate geometry through conics and cubics, inspired by the classical treatment of S.L. Loney. The course defined these fundamental objects and explored how to deform them without losing important information via affine and projective transformations. It concluded with a complete classification of conics and cubics living in both affine and projective planes, in both real and complexified settings.



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Madhava Batch Summary



Prof. Soumya Dey — Sets and Functions

Prof. Dey's course built the theory of sets and functions from first principles, beginning with intervals, set-builder notation, and region-graphing in $\mathbb{R}^2$. Students explored set operations, union, intersection, and power sets, with an emphasis on plotting and geometric intuition. Functions were developed carefully from constant functions and the definitions of domain and range through to injective and surjective mappings, motivating the concept of cardinality. The course concluded with a proof that the integers are countable and an exploration of the Schröder–Bernstein theorem.





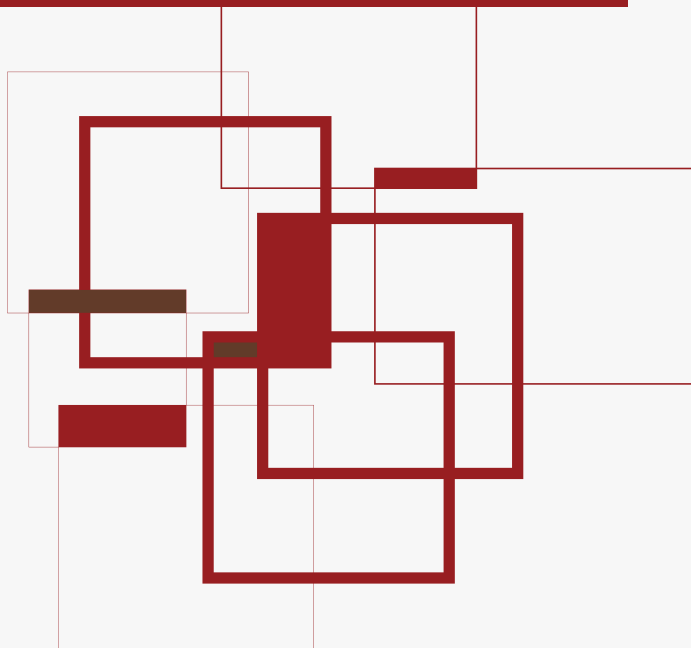
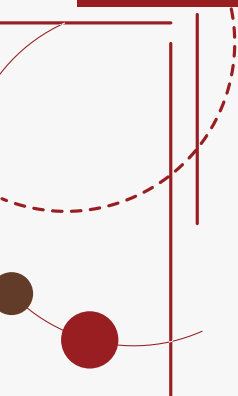
Prof. Ajit Bhand — Sum of Squares

Prof. Bhand's course began with an exploration of Pythagorean triples, primitive Pythagorean triples, and integral solutions, leading into the Brahmagupta equation and Diophantine equations. Students progressed from sums of two squares to sums of three and finally four squares, allowing them to appreciate Ramanujan's work on quadratic forms. The course culminated with a discussion of Manjul Bhargava's 15 theorem and an introduction to continued fractions.



Dr. George Thomas — Non-Euclidean Geometry

Dr. Thomas took the students on a journey through unseen geometry, starting with neutral geometry and exploring Euclidean properties without relying on the fifth postulate. He presented equivalent statements to the fifth postulate and introduced tests of congruence before moving into hyperbolic and elliptical geometry. Key concepts included the angle of parallelism, asymptotic parallels, Saccheri quadrilaterals, and the Bolyai formula. The course concluded with a discussion of axiom systems and their fundamental properties.



Sridhara Batch Summary



■ Dr. Ashwin Guha — Linear Algebra

Dr. Guha's course built the foundations of linear algebra from the ground up, starting from systems of two equations that students already knew and developing matrices, determinants, and vectors as natural tools for understanding them. Through a highly interactive, dialogue-driven approach, the class progressed from solving systems by elimination to Cramer's rule, matrix operations, and the beginnings of vector spaces. The course gave students their first encounter with abstract algebraic structures while keeping the development grounded in concrete computation.

■ Dr. George Thomas — Methods of Proof

Dr. Thomas introduced Aristotle's laws of thought and major proof techniques—direct proof, contraposition, and contradiction—through clear geometric examples that strengthened foundational reasoning. The sessions built students' confidence in formal reasoning and concluded with reflections on the Axiom of Choice and Zorn's Lemma, and the equivalence between the well-ordering principle and mathematical induction.

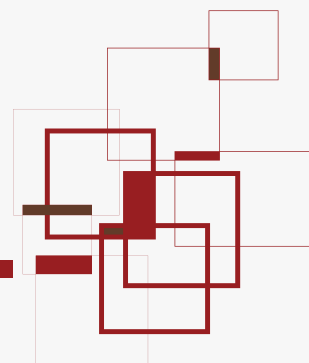


Prof. Soumya Dey — Sets and Functions

Prof. Dey built the theory of sets and functions from first principles, beginning with intervals and set-builder notation alongside a review of factorising equations to ground the formalism in familiar algebra. He introduced Cartesian products and used them as the natural setting for defining and visualising functions. The course covered set operations, union, intersection, and power sets, with an emphasis on plotting and geometric intuition. Functions were developed carefully, from constant functions and the definitions of domain and range through to injective and surjective mappings.

Prof. Ajit Bhand — Probability

Prof. Bhand introduced the concepts of counting from combinations and permutations to the stars and bars method, using this foundation to motivate conversations about probability. The course explored conditional probability and Bayes' Theorem while also motivating solutions to famous problems like the Birthday Problem and the surprising solution to the Airplane-Seat problem.



Faculty and Guest speakers

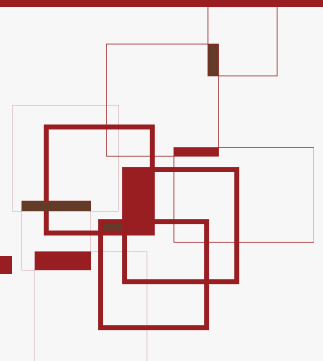


DR. GEORGE R. THOMAS

Mathematician, Independent researcher from Canada and founder of summer camps like Epsilon Camp, MathPath and MathCamp in the USA for students showing high promise in mathematics.

PROF. SOURAV SEN

Prof. Sourav Sen is an Assistant Professor of Mathematics at SRM University-AP, specialising in algebraic geometry and commutative algebra. He holds a PhD from the Indian Institute of Science Education and Research (IISER) Thiruvananthapuram and is actively engaged in mentoring students in research that bridges abstract theory with computational exploration.





DR. ASHWIN GUHA

Dr. Ashwin Guha holds a PhD in Computer Science from IISc Bengaluru. A two-time CENTA Olympiad topper, he also authored the award-winning children's book *The Homework* and writes the blog *Rong but Reasonable*.

PROF. AJIT BHAND

Assistant professor at mathematics department of IISER Bhopal. Involved with the Maths Circle of India initiative of ICTS-TIFR. Co-organiser of the IISER Bhopal Maths Circle.



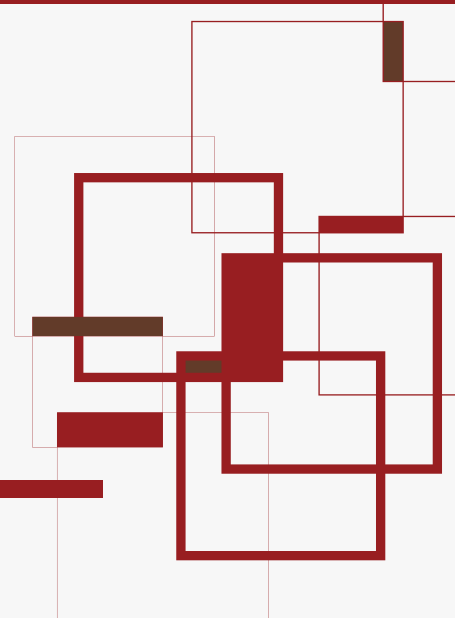


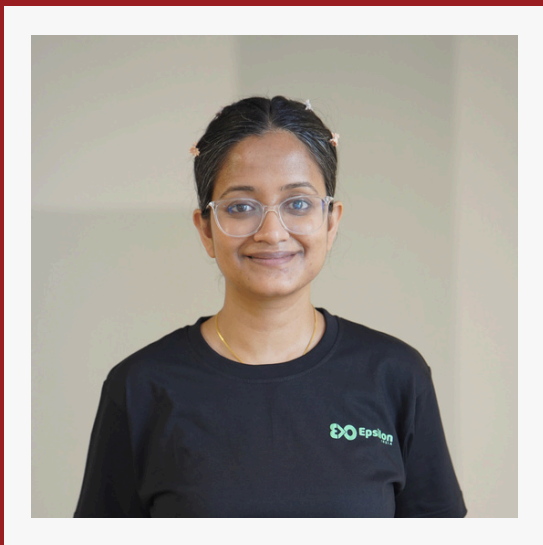
PROF. ATREYEE BHATTACHARYA

Prof. Atreyee Bhattacharya is an Assistant Professor of Mathematics at IISER Bhopal, with expertise in differential geometry. She is known for her ability to weave historical narrative and geometric intuition into her teaching, making advanced concepts accessible and intellectually captivating for young learners.

PROF. CP ANIL KUMAR

Prof. CP Anil Kumar is an Associate Professor of Mathematics at Krea University, with a PhD from The Institute of Mathematical Sciences, Chennai. He received his five-year Integrated MSc in Mathematics from IIT Kanpur and is actively involved in training students for mathematical competitions, blending classical exposition with immersive problem-solving.



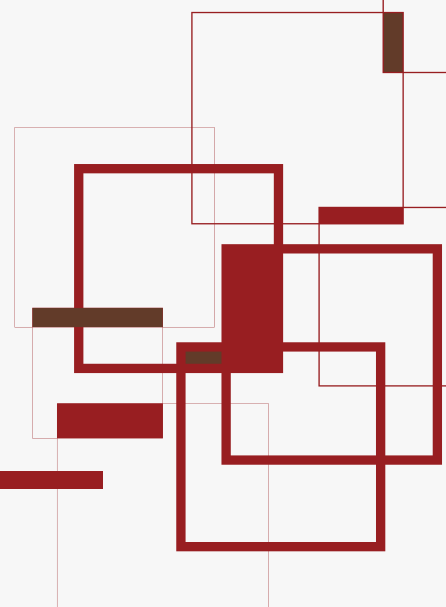


PROF. GANGOTRYI SORCAR

Prof. Gangotryi Sorcar holds a PhD in Mathematics from Binghamton University. She is dedicated to fostering curiosity, confidence, and a love for learning in her students.

PROF. SOUMYA DEY

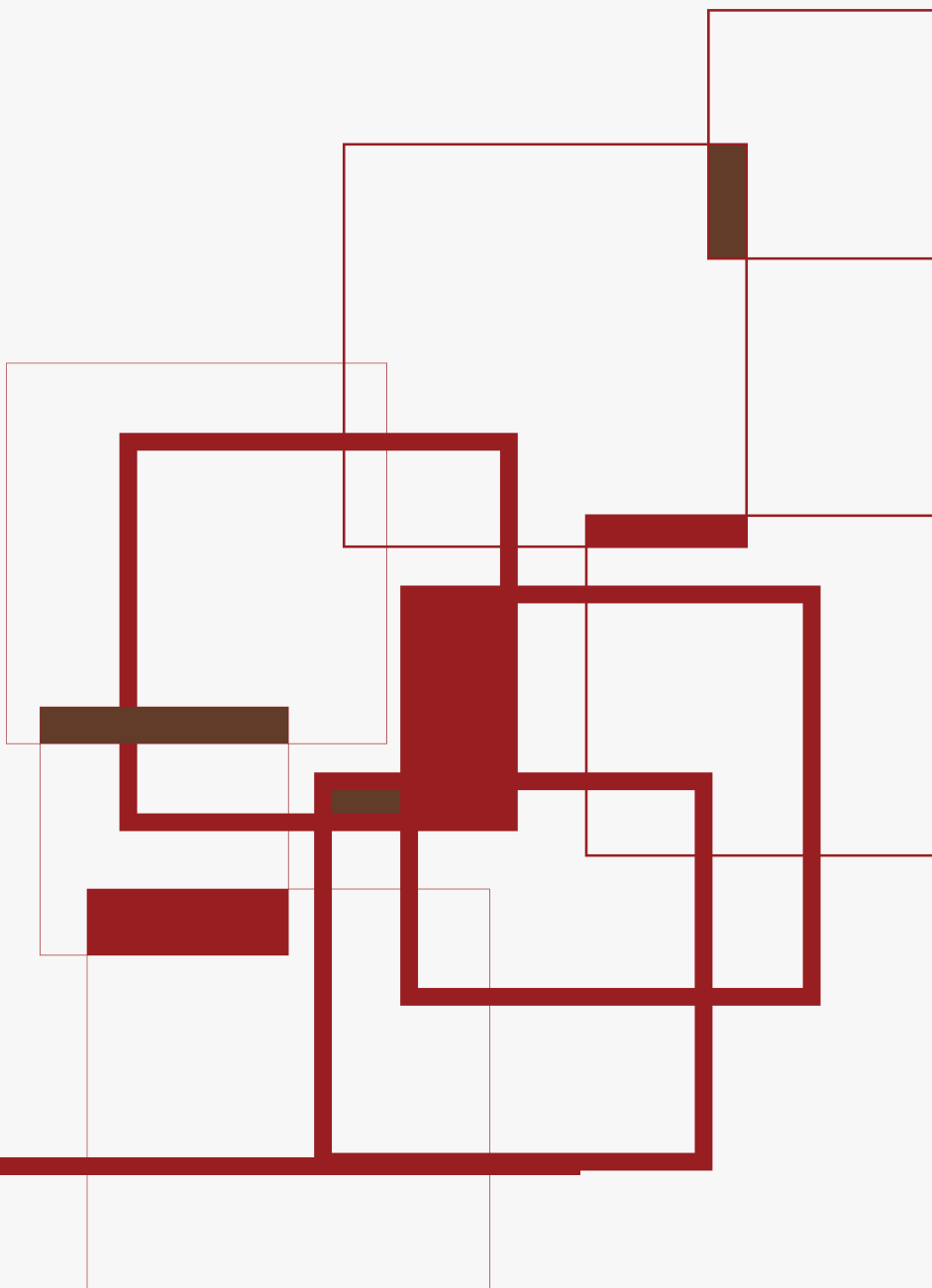
Prof. Soumya Dey is a geometer and topologist with a PhD from IISER Mohali and postdoctoral work at IISER Bhopal, IMSc, and CMI. His research centers on braid groups, mapping class groups, and infinite groups, along with active involvement in outreach and collaborative learning.





PROF. RISHI VYAS

Prof. Rishi Vyas is an algebraist specializing in ring theory, homological algebra, and group theory. Educated at St Stephen's College and the University of Cambridge.



Teaching Assistants



Aaditya Talluri

Aaditya Talluri is a first-year undergraduate studying Physics and Mathematics at Krea University.



Abhijeet Mohanty

Abhijeet Mohanty is a fifth-year BS-MS student at IISER Pune.



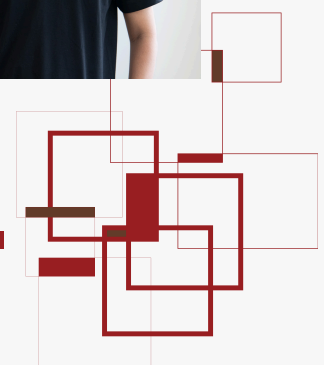
Aditya Sharma

Aditya Sharma is a first-year undergraduate at the School of Interwoven Arts and Sciences, Krea University.



Aritra Mondal

Aritra Mondal is a second-year BSc student in Mathematics and Computer Science at Chennai Mathematical Institute.



Teaching Assistants



Bezal Prabhu Stephen

Bezal Prabhu Stephen holds a Bachelor's degree in Mathematics from Azim Premji University.



Gaurav Verma

Gaurav Verma is a fifth-year BS-MS student at IISER Pune.



Harshitha Mucherla

Harshitha Mucherla is a second-year BSc student in Mathematics and Physics at Chennai Mathematical Institute.



Teaching Assistants



Hurudaya Nataraj

Hurudaya is an undergraduate at Krea University, formerly of Chennai Mathematical Institute.



Lakshmi P.

Lakshmi P. is a first-year MSc student in Mathematics and Computing at IISER Pune.



Rohan Roy

Rohan Roy is a second-year BSc student in Mathematics and Computer Science at Chennai Mathematical Institute.



Teaching Assistants



Sharang Thimmaiah

Sharang Thimmaiah is a PhD scholar in Mathematics at Krea University.



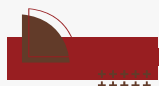
Srivalli Sirisha Medicherla

Srivalli Sirisha Medicherla is a first-year undergraduate in Mathematics at Krea University.



Sundarm Sharma

Sundarm Sharma holds MSc in Mathematics from Mumbai University.



Teaching Aides



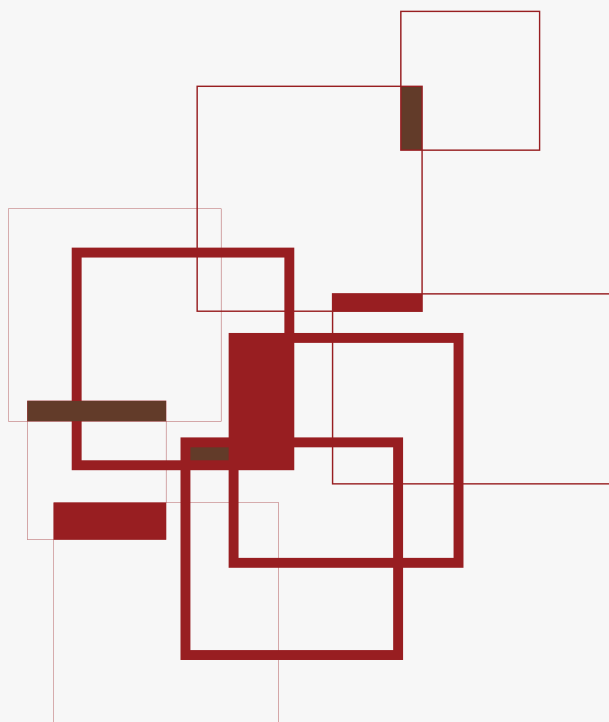
Aaryav Tagra

Aaryav Tagra is a Grade 12 graduate and Teaching Aide.



Shreeram Nair

Shreeram Nair is a Grade 12 graduate and Teaching Aide.



Outing



The Epsilon India Camp experience is never complete without a memorable outing. On May 9, taking a well-deserved break from rigorous mathematics, the students embarked on an exciting day-long picnic.

Setting out early from Krea University, their first stop was the iconic Regional Rail Museum in Chennai. Upon arrival, they were greeted by magnificent, life-sized vintage steam engines and heritage train coaches. The cohort took a guided tour through indoor galleries featuring intricate miniature train models, antique signaling equipment, and historical photographs of the Integral Coach Factory.



Outing



The museum also screened a short film capturing the rich history and engineering might of railways across the Indian subcontinent. One of the highlights of the museum visit was a nostalgic ride on the famous toy train.

Later, turning their focus toward India's cultural heritage, the students attended an immersive session on temple architecture. The talk sparked a vibrant exchange of interesting ideas and questions, marking a perfect conclusion to the excursion. By evening, the lively bus—which was filled with music and dancing in the morning—had transitioned into a peaceful sleeping paradise as the exhausted campers journeyed back.



Games integrated with learning



The camp curated a diverse and stimulating array of games and activities that artfully balanced intellectual rigour with spirited recreation. Participants engaged deeply with a thoughtfully selected collection of board games—including timeless classics such as Othello, Mastermind, three-dimensional Tic-Tac-Toe, Chess, and the strategically intricate Wall Trap—each designed to hone critical thinking and analytical problem-solving abilities. Complementing these indoor pursuits, outdoor activities such as basketball, football, cricket, and badminton provided a welcome respite from academic intensity, invigorating the students while cultivating teamwork, sportsmanship, and collective enthusiasm.



Partners

Krea University



Krea University's sponsoring body, Institute for Financial Management and Research (IFMR) Society was set up in 1970 as a not-for-profit society focused on research, training and education in the areas of macro and micro economics, finance and management including a full-fledged business school. IFMR was set up to provide research-based inputs to industries and the government in the areas of finance and economics. Sponsored by the erstwhile ICICI Ltd, the House of Kotharis and other major industrial groups, IFMR Society was the first of its kind in Asia.

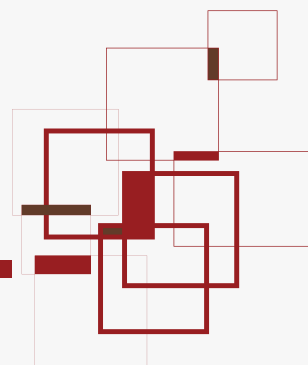




Conclusion

Epsilon India 2026 stands as a distinguished crucible for the nation's most promising young mathematical minds, harmonising exacting academic inquiry with a vibrant tapestry of extracurricular enrichment.

Participants emerged with both a profound deepening of their mathematical knowledge and a refined acuity of critical thought, while simultaneously forging enduring bonds with fellow scholars and mentors. The camp's integrative philosophy—nurturing intellect alongside character—has equipped these exceptional students with the confidence, resilience, and scholarly foundation to flourish in their future mathematical endeavours.



Contact us



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