

Engineering and Science Admissions Test (ESAT)

Cheenta Academy for Olympiad & Research

cheenta.com

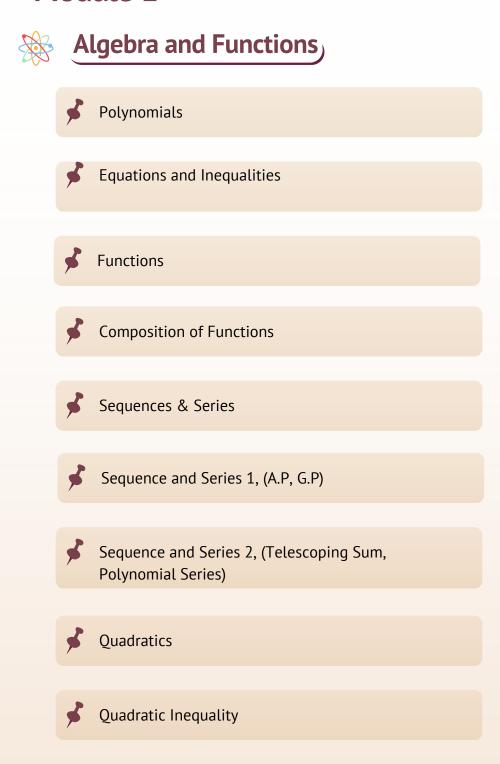
Since 2010

Passion for Mathematical Science & Research

This curriculum is for Engineering and Science Admissions Test (ESAT)

Curriculum

Module 1



Speacial Factorization

Exponentials & Logarithms

11 Lessons



Calculus

12 Lessons

- Differentiation Tangent Lines and Rates of Change
- The Derivative Function
- Introduction to Techniques of Differentiation
- Product & Quotient Rules
- Absolute Maxima and Minima
- Applied Max/Min Problems
- The Indefinite Integral
- Integration by Substitution
- The Definition of Area as a Limit; Sigma Notation
- The Definite Integral
- Areas between Curves
- Volumes by Cross Sections/Disks/Washers



Geometry and Trigonometry)

9 Lessons

Trigonometric Functions Trigonometric Equations Coordinate Geometry Vectors Properties of Circle Tangent to circle Properties of Triangle Congruent Triangles

Similarity of Triangles



6 Lessons



Bivariate Statistics

✓ Venn Diagrams & Probability

Conditional Probability

Discrete and continuous random variables, distributions (binomial, Poisson, normal)

Bayes TheoremProbability Density Functions

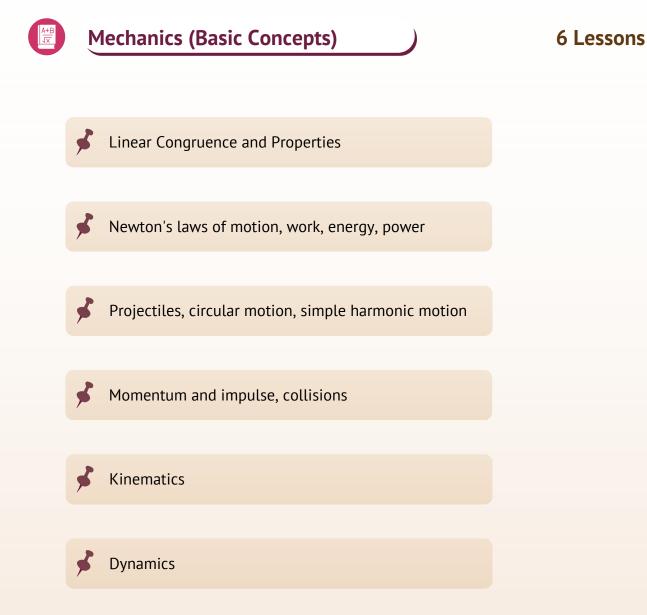


3 Lessons





Iterative Methods: Solving equations numerically



Taught by Olympians and Researchers from leading universities

Since 2010 Cheenta has evolved into a Gurukul. Our students are in leading universities in India such as Indian Statistical Institute, Chennai Mathematical Institute, TIFR, IITs and universities abroad such as Harvard, MIT, Oxford, Edinburgh to name a few. Some of them returned as teachers for the next generation of learners. And the pursuit of excellence continues.



Cheenta Team has 40+ members. Here are some of the leaders.



Srijit Mukherjee
BStat and MStat from
Indian Statistical
Institute (India)
Director at Cheenta



Dr. Ashani Dasgupta
PhD from University of
Wisconsin-Milwaukee (USA)
Founder - Director at
Cheenta



Sanu Shaw
B.Sc. in Mathematics Honours
from the University of
Calcutta
Secured an All India Rank of
15 in the ISI Entrance Exam
(2023)



Raghunath J.V.
B.Tech and M.Tech from IIT Chennai.
Math Olympiad Coach at Cheenta.
INMO and IMO Trainer.



Shayeef Murshid

B.Math and M.Math from ISI

INMO Merit List

Doctoral Scholar at Indian Statistical

Institute

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