



College Maths Program

Cheenta. Passion for
Mathematics.

WELCOME TO CHEENTA

Passion for Mathematics

College Math + Level 4 Pre-College COLLEGE MATHS PROGRAM

Welcome to Cheenta College Maths Program. This program is suitable for I.S.I. M.Math, C.M.I. M.Sc. Math, TIFR Entrance, Maths Subject GRE aspirants worldwide. I.S.I. MSQE, QROR candidates can use some of these modules.

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ONE ON ONE CLASS

for every student
every week

**TAUGHT BY
STUDENTS
OF I.S.I.,
C.M.I.**

**And Researchers
from universities
abroad**

Weekly Routine – 4 classes per week

3 classes in the beginning. 1 more group class is added on the basis of performance after few weeks.

| Group Class 1 | Group Class 2 | One to One Class |
|--------------------------|--|---------------------------------|
| Sunday 9:45 PM I.S.T. | Schedule is assigned after a few weeks of admission following a diagnostic test. | Will be decided after admission |
| 90 minutes | 90 minutes <i>will be activated after a few weeks of attending Group Class 1 and One to One Classes</i> | 30 minutes |
| | Group Class 3 | |
| | Sunday 10 AM I.S.T Or Friday 8:30 PM I.S.T | |
| | 90 minutes | |

Course Fee

- One year: Rs. 28990
- **or**
- Four months: Rs. 11490 (you may renew after that)

Course Duration

- 1 year

Curriculum

Your program includes the following:

- 4 college modules
- 22 college mini modules
- 12 pre-college mini modules
- 5 full length mock test

| Long Module | College Mini Module (run once in a year) | Pre-College Mini Module (run twice in a year) |
|-----------------------------|--|---|
| Abstract Algebra (12 weeks) | Linear Transformation, rank nullity (2) | Invariance Principle (2 weeks) |
| Linear Algebra (12 weeks) | Matrix representation, row reduced forms (2) | Coloring Proofs (2 weeks) |
| | | Extremal Principle (2 weeks) |

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|-------------------------------|---|---|
| Real Analysis (12 weeks) | Diagonalizability, characteristic, minimal poly (2) | |
| Vector Calculus (12 weeks) | Jordan Canonical Form (2) | Mathematical Induction (2 weeks) |
| | Order of an element of a group + Quotient group (2) | Pigeonhole Principle (2 weeks) |
| | Group Homomorphism and isomorphism (2) | Recurrence Relation (2 weeks) |
| | Group Automorphism (2) | AM - GM Inequality and Cauchy Schwarz (2 weeks) |
| | Permutation Groups , Cayley Theorem, compositions (2) | Sequences (2 weeks) |
| | Sylow Theorem applications (2) | Trigonometry (2 weeks) OR Coordinate Geometry (2 weeks) |
| | Ring defn, Ideal , quotient ring (2) | Bijection Principle (2 weeks) |
| | Ring homomorphisms, isomorphisms (2) | Infinite descent (2 weeks) |
| | Tests for a sequence to converge (2) | Mathematical Games (2 weeks) |
| | Tests for a series to converge (2) | |

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| | Connectedness, Compactness + Continuity(2) | |
| | Differentiability (2) | |
| | Reimann Integration (2) | |
| | Sequence of functions and series of functions (2) | |
| | Continuity, differentiability (Multi variable) (2) | |
| | Gradient, Divergence Curl (2) | |
| | Surface and volume integration (3) | |
| | ODE (3) | |
| | Complex basics (2) | |

Book List

- Excursion in Mathematics by Bhaskaracharya Pratisthana
- Introduction to Linear Algebra by Gilbert Strange
- Introduction to Real Analysis by Bartle and Sherbet
- Contemporary Abstract Algebra by Gallian
- Multivariable Calculus by Stewart
- Test of Mathematics at 10+2 Level by East West Press

Refund Policy

*Full amount - Rs. 1000 service fee will be refunded if the student wishes to discontinue **within 7 days** of admission **provided** the student attended all classes, tried the homework, and asked doubt questions in the support forum. **No amount will be refunded thereafter.***