



# Cheenta

## Non Routine

## Physics Program

Level 2



[cheenta.com](http://cheenta.com)

since 2010

**Passion for Mathematical Science**

This program is useful for introducing children to Physical Sciences and Astronomy using problem solving and virtual labwork. It lays the foundation for Physics Olympiads, and engineering entrances.

# Success Stories since 2010



## Aryan Kalia

Top 1% globally in American Math Competition,

Attended Math Olympiad Program and School Research Program at cheenta

Attended Student internship program at cheenta

## Going to Harvard University in 2022



## Anushka Aggarwal

Youngest Indian National Math Olympiad awardee, European Girls Math Olympiad awardee

Attended Math Olympiad Program at cheenta

Attended Student internship program at cheenta

## Going to MIT (Massachusetts Institute of Technology) in 2022



## Sambuddha Majumdar

Scotland Math Olympiad Awardee

Attended Math Olympiad Program at cheenta

Attended Student internship program at cheenta

## University of Edinburgh



## Akshaj Kadaveru

American Math Competition, AIME and USAJMO awardee

Attended Math Olympiad Program at cheenta

## MIT (Massachusetts Institute of Technology)

# Curriculum driven by problem solving



**96 weeks program, 16 modules**

## Mechanics



**Mechanics Pre Calculus**

8 weeks



**Mechanics - Rotational - 1**

7 weeks



**Kinematics Motion in a  
Plane**

5 weeks



**Mechanics - Many  
Particles Physics**

5 weeks



**Newton Laws Introduction**

7 weeks



**Gravitation**

5 weeks



**Application of Newton  
laws**

6 weeks



**Simple Harmonic Motion**

6 weeks

# Curriculum

## Mechanics



### **Mechanics Pre Calculus**

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# Curriculum driven by problem solving

## Non-Mechanics



### Electrostatics

7 weeks



### Heat and Thermodynamics

7 weeks



### Electricity and magnetism

7 weeks



### Fluid Mechanics

8 weeks



### Optics

8 weeks



### Surface Tension

7 weeks



### Properties of bulk matter

8 weeks



### Wave Motion

8 weeks



### Seeds of Calculus and Trigonometry



### 48 + Experiments

# Taught by Olympians and Researchers from leading universities

Since 2010 Cheenta has evolved into a Gurukul. Our students have attended 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



**Tanumoy Banerjee**  
Bachelor of Science (Hons) in  
Physics from Delhi University  
Assistant Physics Faculty at  
Cheenta

# Contest Calendar for beautiful problem solving

Cheenta students think of Physics contests as **milestones**. The end goal of the program is to fall in love with physics and develop great problem solving skills. Milestones help us to stay in track.

Not all physics contests are equal. Here is a list of contests that are suitable and most effective at this level of learning.

Our success centre will keep you updated about registration deadlines of these contests and other opportunities

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**National Standard  
Examination in Physics  
(NSEP)**



**Kishore Vaigyanik  
Protsahan Yojana  
(KVPY)**



**Indian National  
Physics Olympiad  
(InPhO)**



**Engineering  
entrances like IIT JEE**

# Thank You

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## Passion for Mathematical Science

Let us know if you need more information.



### Email

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