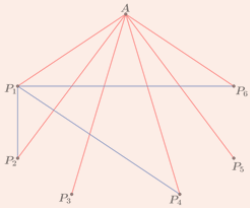


## Process

Apart from recorded lecture sessions, each level provides periodic assignments and answers.

## Registration & Certification...

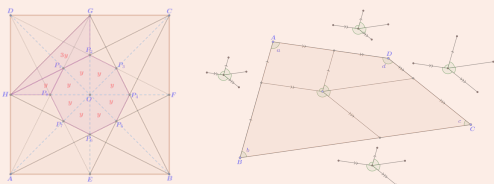
1. Course is free online.
2. **Course Registration** will be open for each level every year.
3. Recorded lectures are posted every week during the ten-week course.
4. Students should go through the lectures before practicing the assignments posted biweekly.
5. Students desiring certification must opt for the final exam during the **Exam Registration** process that carries a nominal fee.
6. Final exam will be a proctored one and conducted at centres in select cities across India.
7. Certification is based on evaluation of the same.
8. Grade certificate will be issued by IITM Pravartak only for students who take the exam and get grades.



For more details, please connect to <https://iitmpravartak.org.in/out-of-box-thinking>

Designed and to be conducted by...

**Sadagopan Rajesh (Mathematics Educator)**



## Registration

**Start Date:** 15-May-2025

**End Date:** 10-Aug-2025

**Course Commences  
for Level I, II, III and IV**

**22<sup>nd</sup> - Aug - 2025**

<https://iitmpravartak.org.in/out-of-box-thinking>



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# OUT OF THE BOX THINKING - through MATHEMATICS

OGBT

Unique Courses at

**4** Different  
INDEPENDENT LEVELS

across ages



An Initiative of

**IIT MADRAS PRAVARTAK TECHNOLOGIES FOUNDATION**

to nurture young minds



<https://iitmpravartak.org.in/out-of-box-thinking>

## ABOUT MATHEMATICS

Mathematics is not just mechanical calculations of numeracy or mere plugging of borrowed formulas existing for ages. It is a study of facts of numeracy and logic, where logic is interwoven in the study of mathematics. It provides an opportunity to explore self-assessment, data processing, validation, to develop broader thinking by dealing with a variety of problems which lead to multiple solutions. The joy of discovery of this process, helps realize the powerful applications of mathematics in various fields from Anthropology, Archaeology, Astronomy, Biology and so on.

## OUT OF THE BOX THINKING THROUGH MATHS

Logic being the undercurrent in the study of mathematics, it is essential to develop a broader thinking, through its applications in the expanding world of technology. From solving a fun sudoku puzzle to completing an important scheduled project, the logic of working is much more important than the arithmetic involved in it

Out of the box thinking or lateral thinking is solving problems through an indirect and creative approach, using reasoning that is not immediately obvious, and involving ideas that may not be obtainable by using only traditional step-by-step logic. In this unique course, out of the box thinking is emphasized through rediscovering the known and unknown facts of mathematics logically, with an interesting broader perception of the manner of doing it.

## FOR WHOM

- Easily accessible courses for school children, professionals, and researchers.
- Four graded independent levels cater to different skill levels.
- Offers multiple approaches to problem-solving.
- Equips them to handle real-life projects with ease.

## How is that?

- ★ A kid says to her mother that she observed in a computer: "AUGUST 2020 followed by DECEMBER 2020 followed by FEBRUARY 2020. "Mother said "No. It must be FEBRUARY 2021 not 2020. Check!" Kid said: "I have checked. Its FEBRUARY 2020 only in the mentioned order" Kid is right and how is that?!
- ★ In a Maths lab, two boys were given an abacus having four rods with few beads in it. Teacher asked her students to read the number from the abacus setup. Vidharth says: "Its 1729." Viraj says: "Its 9271". Both are right and how is that?!
- ★ Kaveri says to her father: "I cut a square piece out of a rectangular A4 sheet of paper." Father asked her: "Did you fold the paper?" Kaveri replied: "No!" Father: "Did you measure by ruler and cut the paper?" Kaveri replied: "No!" Kaveri continued: "I used two A4 sheets of paper and my birthday greeting card (that you gave to me last month)". She is correct and how is that?!
- ★ In a petrol bunk, a filler asks a car owner: "Normal petrol costs Rs.100 per litre and Power petrol costs Rs.110 per litre. Which one do you need?" Owner says: "Fill my car tank with Power petrol for Rs.2200. It may be economical and cheaper when I drive 360 km and I could save 30 km. It's happened before too" Owner is right and how is that?!



## COURSES

### Level 1 (School Class 5 and above)

Lecture duration 20 hours

### Level 2 (School Class 7 and above)

Lecture duration 20 hours

### Level 3 (School Class 9 and above)

Lecture duration 30 hours

### Level 4 (School Class 11 and above)

Lecture duration 30 hours

All the lectures will be recorded lectures.

## Commencement...

Level 1 and 2 Commence for 2025 (in parallel)

Level 3 and 4 Commence for 2025 (in parallel)

The same is planned to be repeated every academic year.

