

**FREQUENTLY
ASKED
QUESTIONS**



**ADVANCED OLYMPIAD
TRAINING PROGRAM 2021**

**An intense 6-month online training program to ace
in Regional, National & International Olympiads**

**A
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FAQ

What is AOTP?

The Advanced Olympiad Training Program (AOTP) is an intense online training program conducted by the senior faculty at RAM Foundation on advanced topics in Olympiads. By Olympiads, we mean the Regional Mathematics Olympiad, Indian National Mathematics Olympiad, etc. for high school and higher secondary school students.

Who can apply for this course?

The course is meant for students who are confident in clearing an exam like pre-RMO and certain about doing well in exams like RMO. To get a sense of the kind of questions that students ought to be comfortable doing, refer to a sample paper of RMO on this link. This course may not help students who are very new to the RMO kind of preparation. For RMO preparation, you can apply for our year-long program Regional Mathematics Olympiad Online Training Program (RMO OTP) in July/August 2021.

I am already doing the RMO OTP program and how is this different?

The RMO OTP program is focused on helping students prepare for the RMO, which is the second stage in the series of exams that lead up to the IMO. The AOTP will focus on advanced topics in the stages ahead of RMO. The leap in difficulty between the RMO and INMO is quite huge.

FAQ

Should I continue with RMO OTP or should I register for the AOTP?

If you found the course material in RMO OTP challenging and struggled with the assignments, we suggest you repeat the course to build a strong foundation. If not, then you can register for AOTP. The questions in the Olympiad exams require strong analytical skills and a strong foundation in Mathematics on topics that are usually not covered in the school syllabus. It is common for students to spend a couple 1-3 years preparing for the RMO before venturing into INMO preparation.

What is unique about RAM's AOTP program?

The unique feature about the AOTP program is the distinguished and experienced faculty under whose guidance many students have excelled in Olympiads and many others have been in successful careers in pure and applied Mathematics.

What is the prerequisite required to join AOTP?

Number Theory

Divisibility, division algorithm, GCD-LCM, Euclidean algorithm, Primes, Prime factorisation and related properties, number of divisors, sum of divisors, congruence and elementary properties, linear congruence equations, greatest integer function, Euler's phi function, binomial theorem, elementary trigonometry.

Combinatorics and Algebra

Equations and their roots (quadratic, cubic, relation between roots and coefficients), algebraic expressions, polynomials and elementary factorization methods, Arithmetic mean - geometric mean inequalities, basics of permutations and combinations, elementary probability theory, various methods of proof such as induction, method of contradiction. In addition to the above, mathematical maturity is required.

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Geometry

Basics of Euclidean Geometry, Congruence of Triangles, Similarity of triangles, Concurrence and collinearity, Circles, Quadrilaterals- types and their properties, basics of trigonometry, coordinate geometry, Ptolemy's theorem, Ceva's theorem, Menelaus' theorem, Constructions and Geometric inequalities

How much work is expected of the student?

The students will be given assignments and they would be expected to give their best on the assignments. Some of the problems might take days, weeks or even more than a month to arrive at the answer. Some, even beyond that. That is not because the student is weak but rather the problems are quite challenging. Solutions may not be presented easily because the aim is not to look at a solution but to struggle to find a solution. Through the process, students will learn to deal with frustration and develop patience and perseverance to deal with problems. The student can expect to spend at least 5-6 hours per week to do well on the homework.

What day/ time is the class?

The session will be once a week on Fridays at 6 pm for 2.5 to 3 hours. The session will run from July 9th 2021 to January 2022/INMO exam (whichever is earlier).

Do colleges in India and abroad give preference to students who have participated in the Olympiads?

Institutes like CMI and ISI in India do give a preference for students who do well in INMO. While applying to colleges outside India, the ranks in RMO or INMO are good ways to signal one's ability in Mathematics.

FAQ

How will the live sessions be conducted?

The sessions will be conducted on the online platform 'Zoom'.

Can classes be rescheduled in case of an emergency at the students' end?

This won't be possible because it won't be a one-on-one session. All sessions will be recorded and uploaded in the Google Classroom so that students can go through the recording if they miss any session.

Will there be doubt clarifying sessions?

Doubts clearing sessions will be offered periodically.

Will I get 1 on 1 attention?

Being an online session with a group of students, it won't be possible to give 1 on 1 attention. However, given the small class size, students can expect the session to be personalised. Also, the strong peer group will also help in collaborative learning sessions.

Is there any provision to withdraw in between? Will I get a refund if I do?

You may choose to discontinue in between but no refund will be possible for any dropouts.

What is the course fee?

INR 20,000 for the entire course. Need-based scholarships are available.

FAQ

How do I register for the course?

- Go to our student portal by clicking here:
<https://app.raisingamathematician.com/login>
- If you do not have a login, please create one. Else login using your credentials.
- You will land on the Dashboard page. Click “Register” on the AOTP program and follow the steps to complete Registration. Once the payment is completed, you will be automatically registered. The Course Fee should be displayed as “Paid” and status should be “Enrolled” as indicated below in the “My Courses” page.

Course Name	Instructor Name	Start Date	Application Fee	Course Fee	Course Status
		Invalid date	NA	NA	Unenrolled
AOTP 2021	Mary	27-09-2021	NA	Paid	Enrolled
Epsilon 2021	RAM Foundation Faculty	02-09-2021	NA	Paid	Enrolled
Math Course 2020	Mary	01-09-2020	Paid	NA	Enrolled
RAM TP 2020	Mary	01-09-2020	Paid	NA	Enrolled
RAM TP 2021	RAM TP Faculty	21-09-2021	Paid	NA	Enrolled
Test 2020	RAM TP Faculty	14-02-2021	Paid	Pending	Application Under Review
TQM 2020	Mary	01-09-2020	Paid	NA	Enrolled