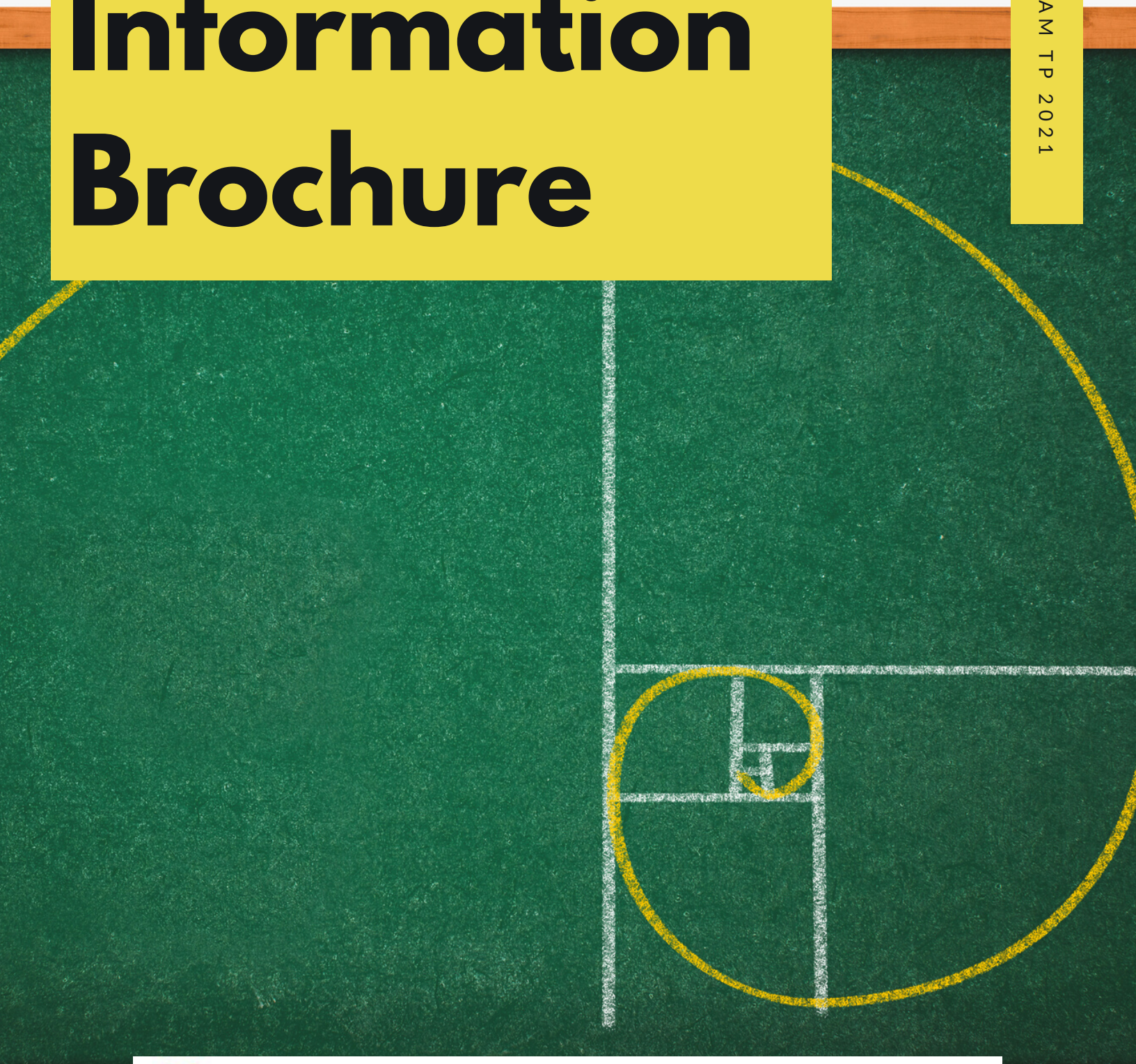
Information Brochure

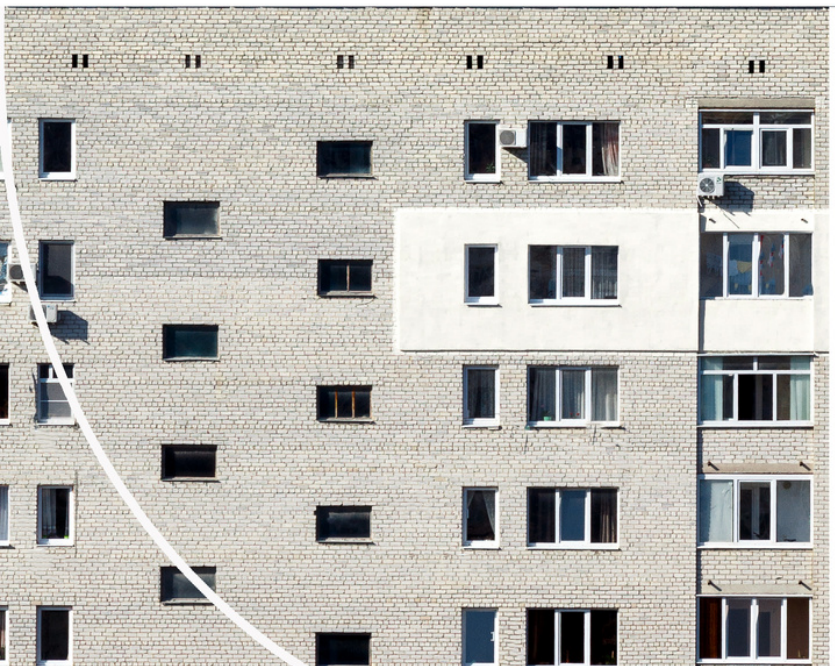
RAM TP 2021



Raising A Mathematician Foundation™

RAM TP-2021

Regn. No. E/8816 Thane Region. Registered under Bombay Trust Act, 1950



READ THIS

Important Information

1. **PLEASE ENSURE THAT YOU HAVE READ THE BELOW DOCUMENTS VERY WELL BEFORE YOU FILL UP THE FORM FOR RAM TP 2021.**
2. Take a print out of this 8-page document for your reference.
3. Mention your email address when filling the application without any spelling errors and ensure that you have saved our email address so that our emails do not go to your spam folder.
4. Recommendation Letter (recommended, but optional in case you don't have a teacher who can recommend). You can attach a scanned copy of a recommendation by the teacher OR mention the teacher's email address while filling up the online application form so that the teacher can directly send across the recommendation letter through the link that will be provided to her on the email. A sample template of the recommendation letter is given below in this document. You can send this to your teacher and they can use these points when writing your recommendation letter.
5. We receive a lot of calls and it is not possible to explain all the below said instructions and details of the program to each and every caller. Phone calls to our number will only be entertained only after you have read the below documents.
6. If your board exam dates coincide with the camp dates, please do not apply for the camp.

Ensure you have seen the video on how to apply using our student app before you start the application process tinyurl.com/howtoramtp

BROCHURE

RAM TP-21

INFO

Brochure

Brochure of the 8th Annual National-level Mathematics Training Program for High School Students

Objective:

To guide young and bright Mathematical talent (age 13-15) to take up a career in Mathematics and encourage them to pursue research either in pure or applied Mathematics.

Mathematics is an important subject which helps in logical thinking and improves the reasoning-ability of a student. The current global scenario demands individuals to analyze all the possibilities in solving a problem and derive a decision based on the same. Mathematics similarly, enables students to approach situations from different angles and dig out the best possible solution. Globally, 13-15 is the age group in which talented students are groomed and provided the necessary guidance and direction to excel in their area of interests. In academics, Mathematics is a subject which plays a pivotal role in the performance of a student in any area he or she explores later.

The present structure of spotting young mathematical talent is by conducting examinations. And the guidance provided to the many talented students lasts only till the examination hall and does not facilitate continuous learning. Therefore, the learning process remains incomplete, scraping only through the the surface of their real potential.

With *Raising a Mathematician Training Program* (RAM TP), we aim at providing holistic and complete guidance to talented young teenagers. Our program covers two major aspects of learning - **convergent thinking** and **divergent thinking**. In convergent thinking, we help students understand different scenarios and logically come to a unified conclusion. Whereas in divergent thinking we help them explore different directions and find creative solutions. Using Mathematics, a student is trained to develop logical thinking thereby improving his convergent thinking.

Objective:

The unique and the best aspect of this program is that it works independent of any grading systems and hence the students will be encouraged to take intellectual risks. The program stresses on questioning and looking at the proofs of various mathematical concepts so as to understand the thought process behind its origin and encourage the students to develop a research attitude. The program also tries to knit together various topics of algebra and geometry, and encourage students to think about its applications in the real-life scenarios. We believe in the inter-disciplinary approach and not compartmentalize Mathematics into Algebra, Geometry, Arithmetic, etc. This division is for convenience and connecting these different areas should be encouraged and highlighted.

Highlights:

1. Conceptual understanding of secondary/higher secondary level Mathematics and topics beyond the curriculum, along with reasoning.

2. Creating a pool of like-minded students who can share their knowledge base, encourage, motivate and get motivated by the fellow students.

3. Guest lectures by eminent professors of Mathematics and industry experts who are actively involved in research and practice of Mathematics in pure or applied areas.

Target:

At the end of the program, the student will be able to gain a better understanding of higher secondary level Mathematics and correlate different topics, thereby getting a holistic view of the subject. The student will be able to appreciate the application of mathematical concepts in allied areas.

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Topics covered in past:

- Non-Euclidean Geometry
- Number Theory
- Indeterminate Equations
- Cryptography
- Game Theory
- Financial Mathematics
- Proofs
- Sequences and Series
- Combinatorics
- Algorithms
- Mathematical Logic
- Theory Construction

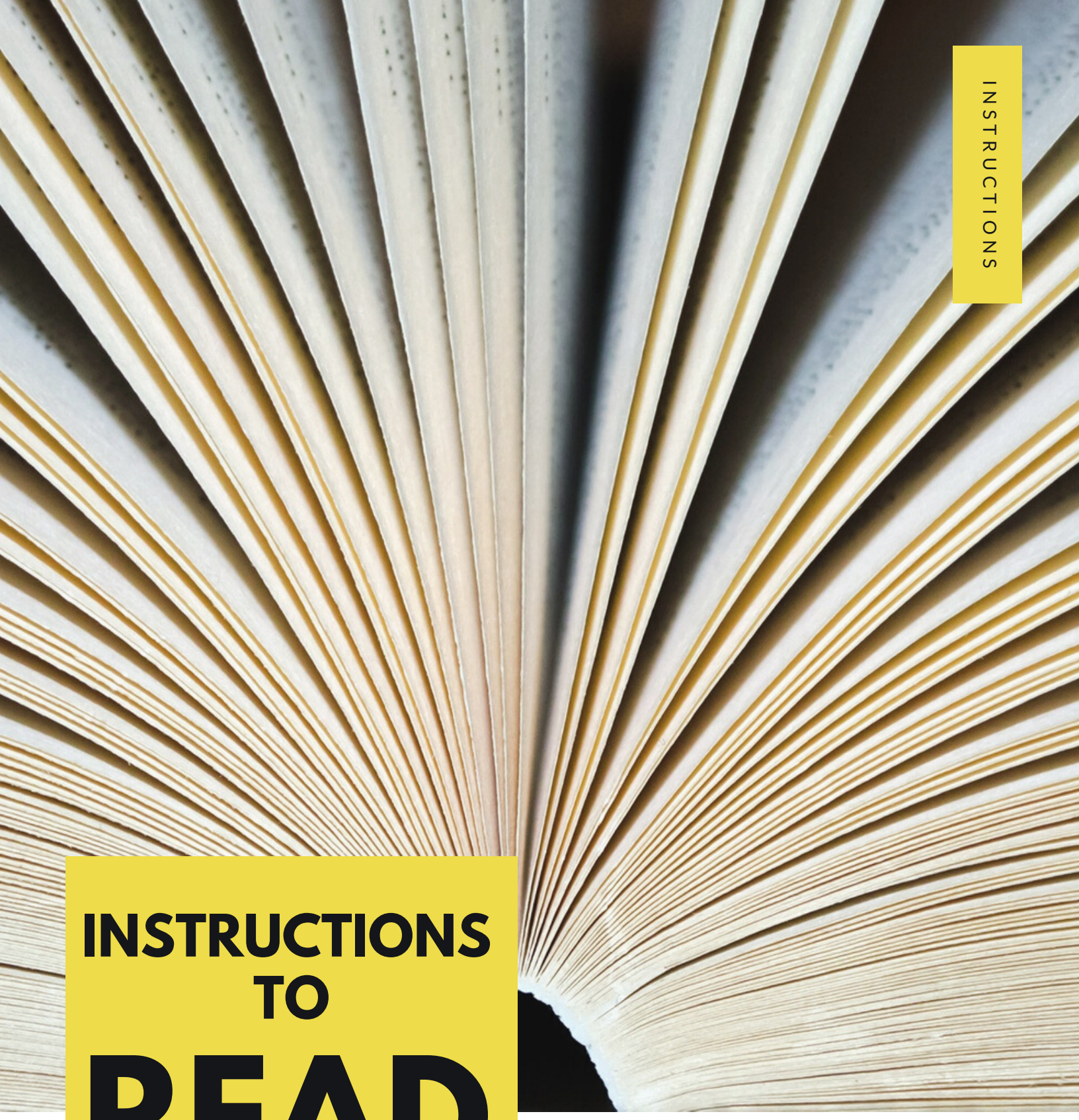
For Senior Batch

- Econometrics
- Machine Learning
- Multiple Regression

Discussions on the work of eminent mathematicians, history of Mathematics in today's context and scope of further research

Duration & Fee:

7 days free of cost program.



INSTRUCTIONS TO READ

Instructions

(Take a print out of the entire document and read it carefully)

1. Register online on **www.raisingamathematician.com**. Please watch this video to understand how to make the payment and complete the application process (**https://tinyurl.com/howtoramtp**)

2. Make an online payment of Rs. 150 to complete the application process.

3. The registration process would be incomplete without the payment of the registration fee. Registration has to be completed latest by **21st February 2021**. Out of the applications received, about 140 students will be selected. The selected candidates will be informed through email on or before **31st March 2021**. List of selected candidates will be put up on **www.raisingamathematician.com** on or before the above date. Regret letters will not be sent to the candidates who are not selected. Selection of candidates by the committee will be final and no discussions in this regard would be encouraged.

4. The program will be offered free of cost.

5. Please do not apply just because he/she is the top ranker of the class. The program is for those students who question a lot in Mathematics and not for those who accept it without being inquisitive.

FAQ

Frequently Asked Questions

1. What is Raising a Mathematician Training Program (RAM TP)?

RAM TP is an annual 7-day national-level residential program that is conducted every year. Owing to the Covid-19 pandemic, the camp was successfully conducted online in May 2020. In 2021 too, the camp will happen in the online mode. In this camp, students are exposed to higher-level Mathematics and focus is on exploration, discussion, and enquiries rather than mere coaching.
For more details, watch on YouTube: **https://tinyurl.com/aboutramtp**

2. How many students attend the program?

Around 100-140 students are selected all over India out of hundreds of applications received. Last year we had students from 17 states attend the program. About 25% of the students attending the program are usually girls.

3. What is the basis of selection for RAMTP?

The students are selected based on the inputs provided in the application form submitted and the Teachers' Recommendation Form. We don't give more weightage to marks scored in school or curriculum and are looking for students who display a passion to pursue Mathematics as a career or want to explore the application of Mathematics. If needed candidates may be interviewed face to face or via telephone. Selection for an interview doesn't automatically improve your chances of getting selected.

4. Since how many years this program is being conducted?

RAM TP 2021 is the eighth annual flagship program conducted by Raising a Mathematician Foundation (RAM Foundation). This program has received appreciation from the honorable Governor of Maharashtra in 2014.

5. Will this program help me to appear for any exam like RMO?

There will be no training provided specifically to cater to any exam. The objective of this program is to free the students' mind from focusing on exam preparation and dive deep into Mathematics. This is precisely why we don't conduct any test at the end of the program.

6. Will this program help me to appear for any exam like RMO?

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7. Where will this program be conducted in 2021 ?

Had the situation of the pandemic been better, it would have been conducted at Chennai Mathematical Institute. Owing to the present situation, it will conducted online in 2021.

8. When will this program be conducted?

RAM TP 2020 will be held from 21 st to 27 th May 2021.

9. What does a typical day of a student at training program look like?

The day generally starts at around 7 am with adequate breaks in between. The sessions typically end by dinner time. Daily around 4-6 hours of formal sessions are conducted. This includes a guest lecture by a renowned speaker from reputed institutes or a research professor or an industry expert.

10. How do I apply for this program?

The student, who wishes to apply, has to fill an online application and pay the application fees of Rs. 150 online. Once the documents are uploaded and the form is submitted, the candidate will receive a notification email about the successful submission of candidature.

11. Do you provide an application fee waiver?

The application fee waiver is provided on need-based and will require your school teacher to vouch for your financial constraint. You have to write an email to raisingamathematician@gmail.com explaining why do you need the waiver.

12. What is the fee for the program?

The program is offered free of cost for the selected students. We believe that the students who are selected for this program are deserving candidates who need to be encouraged to attend such programs. If the candidate does not complete the program for whatsoever reason, a donation of Rs.5000 will have to be paid to RAM Foundation to recover the cost incurred on the student for attending the program.

13. How do you manage to offer the program free of cost?

The training program is conducted by the generous support of CMI, other organizations and individuals. If you wish to donate for this cause, contact us on raisingamathematician@gmail.com.

14. What is the last date for submission of application?

The last date for submission of online application is 21 st February, 2021.

15. When will the results be declared?

The names of selected students will be displayed on www.raisingamathematician.com latest by 31 st March, 2021.

16. Can we join the program one day later?

No student is allowed to join the program after 21 st May 2021 or leave before the valedictory on 27 th May 2021.

17. How can we help RAM Foundation?

Write a mail to raisingamathematician@gmail.com.

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L O R

Raising A Mathematician Foundation™

RAM TP-2021
Letter of Recommendation

(To be filled up by the School Teacher)

Dear Teacher,

The program offered at *Raising a Mathematician Training Program 2021* will be intensive and require active participation from the students. There are certain traits essential to get the maximum out of this Program. In this regard, we request you to comment upon the following points.

We thank you very much for your valuable comments.

Student's Name:
School Name & Town/City:

- **Interest in Mathematics beyond school curriculum (Yes/No).**
  If yes, share some instance:

- **Perseverance and determination to crack a problem: Good / Very Good / Excellent / Outstanding**
- **Ability to think on a new problem: Good/ Very Good / Excellent / Outstanding**
- **Does he/she think on discovering something on his/her own in Mathematics or solving problems in non-conventional ways? If so, share some instance:**

If you are recommending more than one student, please put them in order of merit and indicate the ranking of this candidate.

Has he/she ever consulted you for doubts in Mathematics or asked you some questions? If so, what was the question that makes you feel that he/she has got very good potential in Mathematics?

Any other comments:

Signature of the teacher:

Email id and Contact no. of the teacher (preferably cell no.):

Seal of the School (recommended):

FROM TEAM

RAM TP 2021