Coordinator Application

2026-27

For

Mathematics Club

Centre for Innovation
IIT Madras

Instructions

General Instructions

- Mention the following details in the start of your application.

Name:		Insti Name:
Roll:	Room:	Hostel:
Phone (WA):	CGPA:	Email:

- Join the Aspiring Coordinators WhatsApp group for further updates
- The recommended font is a standard font size 11-13.
- The applications have to be submitted in PDF format, named as:
  `<First_name>_<Roll_Number>_Mathematics_Club_Coordinator.pdf`

  For example, `Arjun_ME24B088_Mathematics_Club_Coordinator.pdf`.
- You can upload the finished applications in this Google Form.
- You may submit the completed application on or before **11:59 PM, 19th May 2026.**

Note:

- Be concise and to the point. Bullet points are preferred over sprawling paragraphs.
- It is fine even if you don't answer all the questions.
- Focus on the first few questions before attempting the bonus questions.
- If you have any queries, you can reach out to the heads anytime you want:
  - Arjun Arunachalam (ME24B088): +91 91507 16759
  - Eppa Laxmi Narasimha Reddy (CS24B074): +91 81858 68798
- For fundaes, use this Google Sheet to find details of previous coordinators to contact them.

§1 Nameless and Shameless

1. You, yes you!
   a) Why do you want to be a Mathematics Club coordinator? What do you think are the qualities you have that will aid in your selection?
   b) Carrying on from the previous one, expand upon your *strengths* and *weaknesses* (in a tabular form) that are relevant to the coordinator position. Also, use this opportunity to tell us about any previous experiences you've had.
   c) Mention all *PoRs/activities* you are planning to take next year. Weekly, how much time do you think you will be able to commit to the role of a coordinator? How much time will you commit to other PoRs and academic commitments?
2. What do you think will be your roles and responsibilities as a coordinator in the coming tenure? What do you expect to learn and gain out of your tenure as a Coordinator?
3. How will you ensure your energy and motivation remains high throughout the tenure? Note that the coordinator tenure starts in June 2026 and ends in April 2027 (tentatively).
4. Mention one thing about insti that you've learned over the course of the first year that will have an effect on how you plan or execute things with respect to your coordinator responsibilites.

§2 Serious Koshans Only

1. a) List out our events you attended as a freshie.
   - What did you like about Math Club's events? How are they different from other clubs'?
   - Which one did you like the most and why?

   b) Propose *creative & new ideas* for the club sessions, competitions and events that you want to conduct. We'd encourage you to put forward ambitious ideas. Create a basic event checklist for one of your events.

   c) Come up with some fun ways in which you can *engage the audience* while they are waiting for an event to begin/in between two rounds of a competition.

   d) Apart from events and contests, what, according to you, are some other possible ways to interact with GSB next year?

   e) *(BONUS):* A lot of the audience for our events ends up being dominated by the freshie crowd. Freshies are well and good, but many other students have lost touch with Mathematics in the latter years. How do we reconnect with them?

2. Find out about the events the Mathematics club has conducted. Name all of them and perform a SWOT analysis of any two of them (one Teaching event and one Problem-Solving event).

3. As coordinators you will be managing Deputy Coordinators (DCs) in the latter half of your tenure, who will be looking up to you as mentors.

   a) What is your understanding of the role of a DC in our club?

   b) What are some of the ways in which you would be engaging them in the tenure? Think of avenues such as mini-projects, DC organized events, etc.

   c) What were some shortcomings in the DC tenure last year? *It is completely fine if you were not a DC this year. You are expected to take fundaes for this question.*

4. What do you think is missing in the Mathematics Club? What would you like to see us do that has not been done before?

5. *(BONUS):* What are some clubs you see as potential collaborators for an event or contest? Keep in mind the division of work between the clubs during the collaboration.

§3 Flex your Skillz

§3.1 PPT no GPT

Prepare a presentation on a creative Mathematical topic of your choice, which you can use to have a short teaching session for about 10 minutes. You will be presenting this to us during your interview. Be prepared :)

You can use any tools to make the presentation (including Canva and PowerPoint, and preferably not AI tools). A good starting point would be to explore some ideas such as: Quaternions, Knot Theory, Topology.

Note: These are just examples of the kind of topics that we expect from you, ***don't use*** *these as the topics directly! (Brownie points if you can teach us something that we did not know beforehand XD)*

§3.2 Yapmaxxing

Write a brief and engaging article about one of these topics in 400 words.
Keep in mind to introduce all the mathematical terms you're talking about, and start from the ground up. Try to add your commentary/intuition to anything you come across while writing.

1. Gödel's Incompleteness Theorems
2. Arrow's Impossibility Theorem
3. Brouwer's Fixed Point Theorem
4. Different Levels of Infinity
5. Feigenbaum's Conjecture

§3.3 Why Macha?

As a coordinator, you will need to set intuitive and thought-provoking questions for contests. Design a scaled mini contest containing 3 questions with **varying difficulty keeping all the participants in mind**. Make questions on your own or take inspiration from existing questions and modify them, not just the values (Don't copy directly from the internet). For each question, clearly think about what it is that you are testing the contestant upon. Create a proper answer key to the mini contest. *(Brownie points if you make it in LaTeX)*

§3.4 Tough Luck

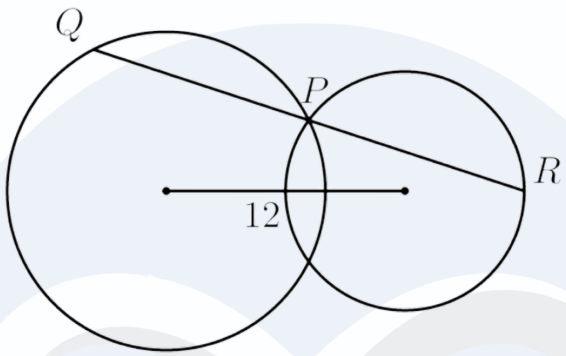
Here are two questions to challenge you. Write neat, clear and concise solutions.

1. In a quiet town, two circular gardens are laid out side by side. The larger garden has a radius of 8 units, while the smaller one has a radius of 6 units. The centers of these gardens are exactly 12 units apart, and the gardens gently overlap, creating two points of intersection.

   Arjun is tasked with building a straight walking bridge that passes through one of the intersection points, call it P. The bridge enters the larger garden, touching its boundary again at a point Q, and continues into the smaller garden, exiting at a point R.

   For aesthetic balance, the Arjun ensures that the segment of the bridge inside the larger garden (QP) is exactly equal in length to the segment inside the smaller garden (PR).

   What is the square of the length of QP?



2. In the Hidden Leaf Village, mastering chakra control is essential for every shinobi. During a special training exercise Kakashi asks each student to generate a sequence of chakra pulses.

   Each pulse is represented by one of two symbols:

   - A: a steady, controlled release of chakra
   - B: a sharp, explosive burst of chakra

   To ensure proper balance and control, the sequence must satisfy the following conditions:

   - Every run of consecutive A's must have **even length**.
   - Every run of consecutive B's must have **odd length**.

   For example, the sequences AA, B, and $AABAA$ satisfy these conditions, whereas $BBAB$ does not.

   How many such valid sequences of length 14 are possible?

§4 Influencer 101

1. Design a poster for an event that you have proposed. Complement the poster along with a suitable publi message.
2. What things do you think we should post on our social media handles such as YouTube, Instagram and LinkedIn that would lead to better visibility and publicity for the club and its activities?

***** END *****


You're still here.
It's over. Go home.