

MATHETHON 2025- A REPORT

“WHERE MATHEMATICS MEETS INNOVATION”

Date of the Event:

- **Online Round:** 4th – 14th February 2025
- **Offline Round:** 17th February 2025

Coordinator:

- Prof. P. P. Vermani

Convenor (Faculty):

- Ms. Harpreet Kaur
- Dr. Manjeet Kaur



Stage set for “Math-e-thon: The Math Heroes Edition”

Mathethon – A Hackathon for the Mathematically Inclined

Innovation doesn't just come from numbers, nor does it solely emerge from technology. It happens at the intersection of the two. **Mathethon 2025 was not just a competition; it was a fusion of mathematics and technology—where logic met computation, equations powered real-world solutions, and problem-solving was driven by innovation.** A math-based hackathon in its true essence, Mathethon challenged participants to apply mathematical concepts in creative and impactful ways, proving that numbers are not just theoretical but powerful tools for technological advancement.

Organized by **Infinity – The Mathematics Society of GTBIT**, this two-phase event brought together problem solvers, analytical thinkers, and innovators who dared to push the boundaries of what mathematics can achieve when paired with technology.

The Online Showdown: 4th – 14th February

The journey of Mathethon began with an intense **online round** designed to filter out the most promising mathematical minds. Teams from various institutions registered and submitted presentations outlining their mathematical solutions, demonstrating how core mathematical principles could be infused with technological applications. With participation from **21 teams, including institutions beyond GTBIT**, the competition was nothing short of fierce.

For ten days, teams refined their ideas, diving deep into data analytics, computational mathematics, cryptography, optimization techniques, and mathematical modeling. Every submission was a testament to how mathematics, when paired with technology, can drive real-world innovations. On **15th February**, after rigorous evaluation, **13 of the 21 teams made the cut**, earning their place in the grand finale.

The Grand Finale: 17th February – Where the Real Challenge Began

On **Monday, 17th February**, the **BVS Block Auditorium** transformed into a hub of mathematical and technological brilliance. The air was charged with anticipation as teams from **VIPS, BPIT, USAR, USICT, MAIT, IGDTUW**, and GTBIT arrived, ready to put their skills to the ultimate test.



Director Ma'am Dr. Rominder Kaur along with esteemed faculty members of Guru Tegh Bahadur Institute of Technology during the lamp lighting ceremony at the inauguration of “Math-e-thon

How the Day Unfolded:

A Grand Opening:

The event began with a warm welcome and an insightful introduction, graced by the presence of GTBIT’s esteemed **Director, Dr. Rominder Kaur Randhawa**. Her presence set the tone for the day, emphasizing the importance of mathematical innovation in a technology-driven world.

Fuelling the Minds:

After a morning briefing, participants were treated to a hearty breakfast, preparing them for the rigorous brainstorming ahead.

The Innovation Sprint:

The next few hours saw teams diving deep into their final drafts, refining their mathematical solutions with the guidance of **Infinity’s dedicated mentors**. This mentorship played a crucial role in helping participants enhance their ideas, structure their presentations, and apply complex mathematical principles effectively.

A Break Before the Final Showdown:

Following an intense preparation session, participants took a break for lunch before stepping into the most awaited part of the event—the final pitching session.

The Ultimate Test – Pitching to the Experts:

In the afternoon, teams took the stage to present their projects before an esteemed panel of judges, where their ideas were evaluated on three key aspects:

- **Originality of the Concept**
- **Presentation and Communication Skills**
- **Technical Depth and Mathematical Rigor**

The judging panel included:

- **Dr. Ashish Kumar** (HoD, CSE Department)
- **Dr. Parsan Kaur** (HoD, Mathematics & Applied Sciences)
- **Technical Mentors from Infinity**

The panel engaged in thoughtful discussions, questioning participants on their methodologies, real-world applications, and the scalability of their ideas. After much deliberation, three teams emerged victorious, securing their places as the **top innovators of Mathethon 2025**:

- **First Place:** "The Ackerman Clan" (VIPS-TC) – ₹5000
- **Second Place:** "Hadn't" (GTBIT) – ₹3000
- **Third Place:** "Deadline Dominators" (BPIT) – ₹2000

A Celebration of Mathematical Innovation

As the evening drew to a close, **Director Ma'am personally felicitated the winners**, marking the culmination of an event that had successfully blended **mathematics, technology, and innovation**. However, Mathethon was more than just a competition—it was a space where ideas took shape, where equations weren't just solved but applied, and where mathematics proved its relevance in the modern world.

What made this event even more special was the **unwavering support from faculty members**, who visited throughout the day, showing their encouragement for the participants and the vision behind Mathethon.

Appreciation to the core team of students coordinator and anchors who worked tirelessly to make the event successful and memorable.

And, of course, no event is truly complete without one final moment of pride—the **Infinity team standing together, alongside their teacher in-charges, capturing the essence of months of hard work in one victorious snapshot.**



Director Ma'am Dr. Rominder Kaur, faculty members, and organizers with the winners of

“Math-e-thon



Faculty coordinators with the enthusiastic student organizing team of “Math-e-thon

Conclusion

Mathethon 2025 was not just another mathematics competition—it was a **revolution in problem-solving**, a platform where **math met technology**, and a challenge that proved that **mathematics isn't confined to textbooks but is a driving force behind real-world innovations**.

With that, **Infinity once again proved why it truly is limitless**.