



The Air Force School
Subroto Park
New Delhi



TECHNO GEEKS PRESENT

TAFS TECHFEST '16

The Annual Tech and Maths Symposium of The Air Force School

Date: 26th August, 2016

Venue: The Air Force School, New Delhi



Infinity Maths Club

About Us

Techno Geeks is the computer club of The Air Force School, Subroto Park, New Delhi which was instituted in 2008 by the students of TAFS. It is today a well established computer club within New Delhi's tech circuit with its members standing out in various inter-school and national competitions.

The club started hosting its annual computer symposium '**TAFS TechFest**' in 2014 in collaboration with the Infinity Maths Club in an attempt to facilitate intense competition among the top students of various schools of New Delhi in fields like competitive programming, gaming, A/V editing, photography and more.

Members

Coordinator – Mr. Shivender Bhardwaj

Presidents – Anuj Saharan and Rahul

Vice President – Tanishk Sharma

Invitation

Sir/Ma'am,

August 13, 2016

Techno Geeks, the computer club, and **Infinity**, the math club, of **The Air Force School**, Subroto Park, New Delhi are proud to be organising the third edition of **TAFS TechFest** – an inter-school Technology and Math fest - on **Friday, 26th August 2016**.

On behalf of TAFS, it is my great honour to invite your school to participate and contribute in making this event successful.

You are requested to register your school for TechFest'16 by filling up the registration form accessible from our club's website [www.tafstechfest.com], latest by **23rd August 2016**. The rules, schedule and other details are enclosed herewith.

We look forward to your school's valuable participation in TAFS TechFest'16. *Expect the unexpected.*

Yours sincerely,

Amita Gupta,
Principal,
The Air Force School, Subroto Park

Please note: No on-the-spot registrations will be entertained.

General Rules

- All schools **must arrive at registration by 8:50AM.** In case of any unavoidable delay, an individual from 'Contact Us' must be informed.
- A school may be represented by **only one team** in each of the events.
- Schools may **be penalized / disqualified** for not adhering to the event rules on our sole discretion.
- It is advisable that a **student may not participate in more than one event.**
- Schools may confirm their participation by visiting our club's website. The **last date for registering** for any of the events is **August 23th, 2016.**
- The participating teams are advised to keep visiting the **club's website** and **facebook page** for updates regarding the events.

Schedule

Time/Venue	Aravali Hall	Junior Computer Lab	Senior Computer Lab	A/V Room	Activity Hall	Senior Physics Lab	Library	School Campus	
0800Hrs-0830Hrs	Registration								
0830Hrs-0900Hrs	Inauguration								
0900Hrs-0940Hrs		Code-A-Thon Finals	Total LANage	Colloquium	Junior Quiz Prelims	Conceptualize	Senior Quiz Prelims	FLASH	The Surprise
1000Hrs-1230Hrs	Senior Quiz Finals				Junior Quiz Finals				
1240Hrs-1300Hrs	Prize Distribution Ceremony								

Event Structure

I Code-A-Thon [Competitive Programming]

```
#include <pros.h>  
using namespace techfest;
```



- **Eligibility:** IX-XII
- **Number of Participants:**
 - Online Preliminaries: Infinite
 - On-Site Finals: Top 25, At most 1 from each school
- **Languages Allowed:** C/C++ and Python
- **Compiler:** GNU GCC 5.1
- **IDE:** Atom, Code::Blocks

TAFS Code-A-Thon has always been the flagship **competitive programming** event at TAFS TechFest. This year is no different and we are inviting students from all programming backgrounds to show off their skills against the best.

Please note that there will be a **preliminary round** open for **48 hours** on **HackerRank** on the **20th of August**, six days prior to the on-site finals. The link to the same will be accessible from the club's website.

II Total LANage [Gaming]



GET REKT

- **Eligibility:** Open
- **Number of Participants:**
 - On-Site Preliminaries: At most one from each school
 - On-Site Finals: Top 6
- **Equipment Allowed:** Headphones, Keyboard, Mouse
- **Equipment Required:** Android Phone

Total LANage, the **gaming event** of TechFest is getting even bigger this year; we are inviting gamers from every background to challenge them against a test of versatility.

This year's edition is divided into **2 rounds – the on-site preliminaries and the on-site finals**. The **preliminary** round itself consists **of 2 sub-rounds** which will challenge the participants to compete against the best on both **mobile and PC**. The final round will be conducted on a **gaming console**.

The participants will be **required** to bring along with them, an **Android phone** with **ShareIt** installed for the mobile gaming round.

III Stupefaction [Surprise Event]



Expect the Unexpected

- **Eligibility:** Open
- **Number of Participants:** 1 team of 2 students

Remember how we just said that the gaming event is a test of versatility? It is, but is nothing compared to the **Stupefaction**, the surprise event at TAFS TechFest, where the participants are truly expected to **expect the unexpected**.

You will be asked to do certain tasks that revolve around **technology and computer science** in general [maybe **Math** as well?]. The event will follow its own scoring system and needless to say, the team that scores the most will be adjudged as the winner.

The participants will be **required** to bring along with them a **smart-device** with Wi-Fi and other wireless capabilities.

[Who are we kidding; you were going to bring your phone anyway, weren't you?]

IV Flash [Photography]



Been there, clicked that

- **Eligibility:** Open
- **Number of Participants:** 1 team of 2 students
- **Equipment Required:** Camera, Tripod, Lenses, Laptop

Flash is the **photography** event at TAFS TechFest, where the students will be asked to go around our school's campus and click a photograph based on a certain theme, which will be revealed on the spot. The event consists of **3** different **rounds** and the photographer whose **aggregate score** is the **highest** will be adjudged the winner.

The participants will be allowed to use **Adobe Photoshop/Lightroom** on their laptops to tweak the vibrance/brightness/exposure in their photographs. However, **extreme editing is discouraged** and may lead to disqualification.

P.S- It is advisable that the participants bring their **own laptop and pen drive** so as to avoid any inconvenience/delay.

V Senior Quiz



Unleash your inner geek

- **Eligibility:** X-XII
- **Number of Participants:**
 - On-Site Preliminaries: 1 team of 2 students
 - Stage Finals: Top 6 teams

The **Senior Quiz** will consist of **2 rounds** – the on-site preliminaries and the stage finals. The preliminaries will be a pen and paper test and only the **top 6 teams** will be selected for the **stage finals**.

The quiz will mostly revolve around **technology and computer science**, and that participants are not required to brush up their skills in mathematics. [Phew]

However, questions bordering **pop-culture references** and/or **ancient technology** may be involved. *Expect the unexpected.*

VI Junior Quiz



Ad infinitum, et ultra

- **Eligibility:** VI-VIII
- **Number of Participants:**
 - On-Site Preliminaries: 1 team of 2 students
 - On-Stage Finals: Top 6 teams

The **Junior Quiz** will consist of **2 rounds** – the on-site preliminaries and the stage finals. The preliminaries will be a pen and paper test and only the **top 6 teams** will be selected for the **stage finals**.

The quiz will mostly revolve around **mathematics and mathematical trivia**, and that participants are not required to brush up their skills in computer science and technology.

Do you have what it takes to be the very best?

VII Colloquium [Math Symposium]



If you didn't get the message, call me.

- **Eligibility:** XI-XII
- **Number of Participants:** 1 team of 2 students
- **Theme:** Mathematical Paradox

Colloquium is the **public speaking** event at TAFS TechFest. The participants will be required to investigate different **mathematical paradoxes** and present their findings.

The participants are expected to bring along with them a supporting custom made PowerPoint presentation. Each team will be given a total of **4 minutes** [inclusive of concluding time] to present on the topic. The presentation should revolve around the description and explanation of different Mathematical paradoxes.

All participants are required to bring their PowerPoint presentations in their own **pen drives**, which should be submitted to the event volunteers at least **10 minutes** prior to the event.

VIII Synchronize (A/V Editing)



1080p/60

- **Eligibility:** Open
- **Number of Participants:** 1 team of 2 students
- **Time limit:** 3 minutes and 30 seconds

Synchronize is the **audio/video editing** event at TAFS TechFest. This year, the participants will be required to make a **motion graphics/typography** presentation on **the theme** that **was disclosed** on the **8th of August** on both, the club's website and facebook page.

All participants will be required to upload their **submissions** to **YouTube**, and send us the link for the same at contact@tafstechfest.com by the **24th of August**.

Please note that even though the participants are allowed to download stock footage from the internet [to be used for creating background elements], **originality is of prime importance** and **plagiarism will lead to disqualification**. Bonus points will be awarded for original music composition.

IX Cipher (Decryption)



This Ain't MD5

- **Eligibility:** Open
- **Number of Participants:** Infinite

Cipher is the **online decryption** event at TAFS TechFest, where the participants will be competing against the clock to decipher as many questions as they can. The **questions** will generally **revolve around technology and computer science** and the participants need not think about the answers from a mathematical perspective.

The event will be hosted online for **48 hours**, starting on the **20th of August** at **cipher.tafstechfest.com**.

Expect the unexpected.

X Conceptualize [Model Making]



Bob the builder, can you build it?

- **Eligibility:** IX-X
- **Number of Participants:** 1 team of 2 students

Conceptualize is a **model making event** at TAFS TechFest. The participants are required to build a model on the topic – **‘Mathematics on planet Earth’**.

The participants will bring the required material to prepare a model on the topic at the venue within the stipulated **time period** of **2 hours**.

Bringing a **fully prepared/assembled model** will lead to immediate **disqualification**.

Do you think that you can outperform Bob the Builder?

Points Table

Serial Number	Event	Points
1	Code-A-Thon	1 ST - 45
		2 ND - 35
		3 RD - 25
2	Total LANage	1 ST - 30
		2 ND - 20
		3 RD - 10
3	The Surprise	1 ST - 40
		2 ND - 30
		3 RD - 20
4	Flash	1 ST - 35
		2 ND - 25
		3 RD - 15
5	Senior Quiz	1 ST - 40
		2 ND - 30
		3 RD - 20
6	Junior Quiz	1 ST - 30
		2 ND - 20
		3 RD - 10
7	Colloquium	1 ST - 35
		2 ND - 25
		3 RD - 15
8	Synchronise	1 ST - 40
		2 ND - 30
9	Cipher	1 ST - 50
		2 ND - 40
10	Conceptualize	1 ST - 30
		2 ND - 20
		3 RD - 10

Contact Us

For any clarifications/correspondence, please feel free to contact us at any of the following addresses

Club Website: www.tafstechfest.com

Club Email: contact@tafstechfest.com

Club Facebook Page: www.facebook.com/tafstg

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Regards,
Techno Geeks