



# केन्द्रीय माध्यमिक शिक्षा बोर्ड

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन)

## CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organisation Under the Ministry of Education, Govt. of India)

CBSE/SE/JS/IBM/2023

Date: 13.12.2023

Circular No. Skill-135/2023

Heads of all the Institutions  
affiliated to CBSE

**Subject: Future Tech Olympiad – Assess students understanding of future technologies**

Greetings from CBSE!

CBSE has been at the forefront of introducing cutting-edge technologies to students, empowering them to learn and devise solutions using emerging technologies such as Artificial Intelligence (AI), Augmented Reality (AR), Virtual Reality (VR), Cyber Security, Data Science, and more, through the various skill subjects and partner programs. CBSE is committed to preparing students to emerge as technology leaders of the future who will responsibly harness technology towards a Digital India.

CBSE in partnership with IBM had organised the first edition of the 'Future Tech Olympiad' in Feb. 2023 (ref. CBSE Circular No. Skill-23/2023 dated 02.02.2023). A brief report of the same is also attached for reference. Responding to the overwhelming response received from the students, CBSE in collaboration with IBM, is thrilled to announce the second edition of the 'Future Tech Olympiad'.

This Olympiad aims to test students' understanding and awareness of cutting-edge technologies that are shaping our future and prepare the next generation by inspiring them to lead in a tech-driven world.

Top 500 students from the Olympiad will have the opportunity to win medals (Gold/ Silver/ Bronze), while Participation Certificates will be provided for all participating students. The top 20,000 students will be invited to be part of the 'National Future Tech Challenge'. The Top performing schools will also be given special recognition.

We believe that this Olympiad will not only contribute to the academic growth of your students but also foster a spirit of innovation and curiosity towards future technologies. We recommend you to encourage maximum participation from your students in this Olympiad.

**To participate in the Future Tech Olympiad, schools are requested to register and conduct the Olympiad either online or offline before 12<sup>th</sup> January 2024.**

Step-by-step instructions to register for the Olympiad are also enclosed for reference.

For more details about the Future Tech Olympiad, please refer to the attached brochure.

Contd.



'शिक्षा सदन', राऊज़ एवेन्यू, इंस्टीट्यूशनल एरिया, नई दिल्ली-110002  
'Shiksha Sadan', 17, Rouse Avenue, Institutional Area, New Delhi – 110002



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**Please Note:**

1. The Olympiad is offered free of cost to students in all CBSE-affiliated schools.
2. Students from grades IX to XII are eligible to participate.
3. Schools registering for the Olympiad will be contacted by IBM's implementation partner 1M1B.
4. Completion of learning path on IBM SkillsBuild is mandatory for students to participate in the Olympiad.
5. For any queries, please write to [contact@futuretecholympiad.com](mailto:contact@futuretecholympiad.com)

For more information and registration, please visit [www.futuretecholympiad.com](http://www.futuretecholympiad.com)



**Dr. Biswajit Saha**  
Director (Skill Education)

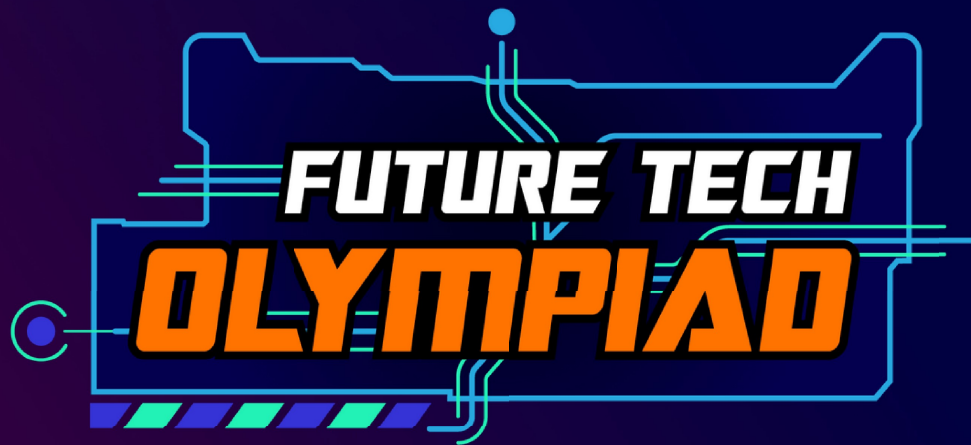
**Enclosed:**

- (A) A brief report of the 'Future Tech Olympiad'.
- (B) Brochure about second edition Future Tech Olympiad'.

**Copy to the respective Heads of Directorates, Organizations and Institutions as indicated below with a request to disseminate the information to all the schools under their jurisdiction:**

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, Delhi-16.
2. The Commissioner, Navodaya Vidyalaya Samiti, B-15, Sector-62, Institutional Area, Noida - 201309.
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi - 110054
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sector 9, Chandigarh - 160017
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim - 737101
6. The Director of School Education, Govt. of Arunachal Pradesh, Itanagar - 791 111
7. The Director of Education, Govt. of Andaman & Nicobar Islands, Port Blair - 744101
8. The Director, Central Tibetan School Admin., ESSESS Plaza, Community Centre, Sec. 3, Rohini, New Delhi
9. The Secretary, Sainik Schools Society, Room No.101, D-1 Wing, Sena Bhawan, New Delhi-110001
10. The Additional Director, General of Army Education, A - Wing, Sena Bhawan, DHQ, PO, New Delhi - 110001
11. The Secretary, AWES, Integrated Headquarters of MoD (Army), FDRC Building No. 202, Shankar Vihar (Near APS), Delhi Cantt - 110010
12. The Secretary, Eklavya Model Residential Schools (EMRS), Ministry of Tribal Affairs, Government of India.
13. The Chairman, Odisha Adarsha Vidyalaya Sangathan, N-1/9, Near Doordarshan Kendra, PO Sainik School Nayapalli, Bhubaneswar, Odisha-751005.
14. The Deputy Secretary to Chairman, CBSE - for kind information of the Chairman, CBSE
15. All the Heads of Department of the Board.
16. All the Regional Directors/Regional Officers/Head-COE, CBSE with the request to send this circular to all the Heads of the affiliated schools of the Board in their respective regions for compliance.
17. Head (Media & Public Relations), CBSE
18. Joint Secretary (IT), CBSE, Rouse Avenue with the request to upload this notification on the CBSE Academic website.

**Director (Skill Education)**



Empowering Minds, Shaping the Future

AN INITIATIVE BY



FOR  
1 MILLION  
1 BILLION

IN PARTNERSHIP WITH  
IBM

“

“I dream of a Digital India where the netizen is an Empowered Citizen.”

Shri. Narendra Modi  
Honourable Prime Minister of India





# About



The **Future Tech Olympiad (FTO)** aims to test students' understanding and awareness of cutting-edge technologies that are shaping our future and prepare the next generation by inspiring them to lead in a tech-driven world.

This groundbreaking Olympiad sets out to evaluate the participants' cognitive prowess and future technology skills, while providing a platform for top young minds to showcase their creative potential with future tech.

After the successful first edition of the Olympiad in early 2023 in which over 35,000 students participated, we are excited to announce the second edition of the Future Tech Olympiad.



# Objectives

The Future Tech Olympiad offers an exceptional opportunity for students to delve into the world of future technologies, gaining valuable knowledge and testing their understanding for a chance to win rewards.

The Olympiad offers students the opportunity to:

- Gain knowledge and exposure on Future Tech
- Acquire Future Tech skills
- Compete nationally to earn recognition and rewards
- Become future-ready



# Rewards

## Medals for Top 500 students



Top 101-300 Students



Top 100 Students



Top 301-500 Students

All participants will receive certificates

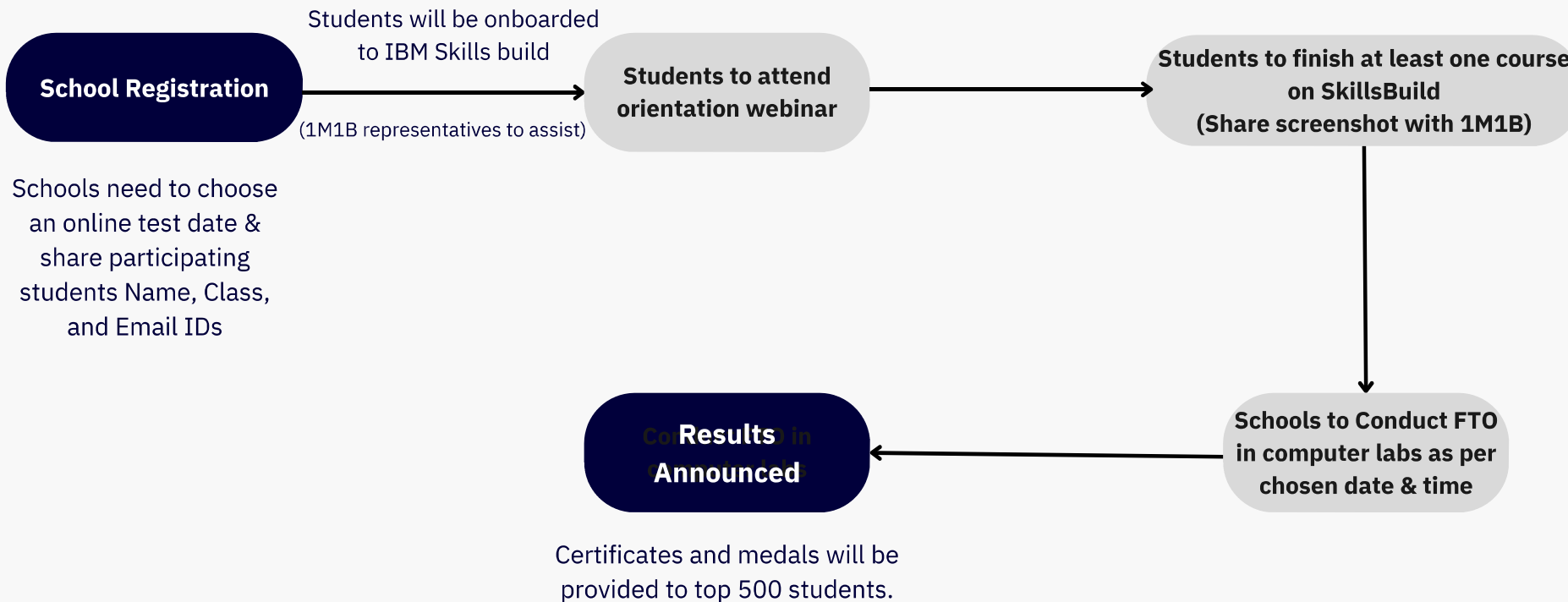
Top 50 schools with the most student registrations and their coordinators will receive recognition

The top 20,000 students will be invited to the National Future Tech Challenge

# Program Flow



## *For School Coordinators & Students*



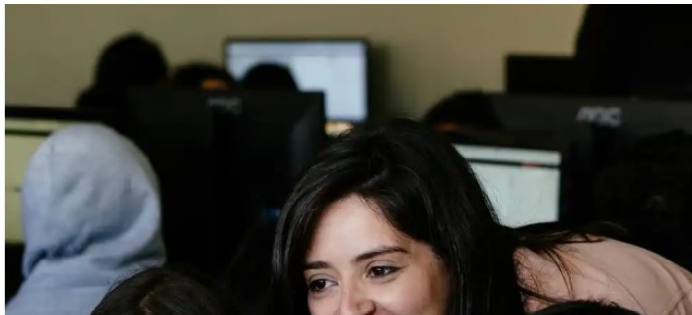
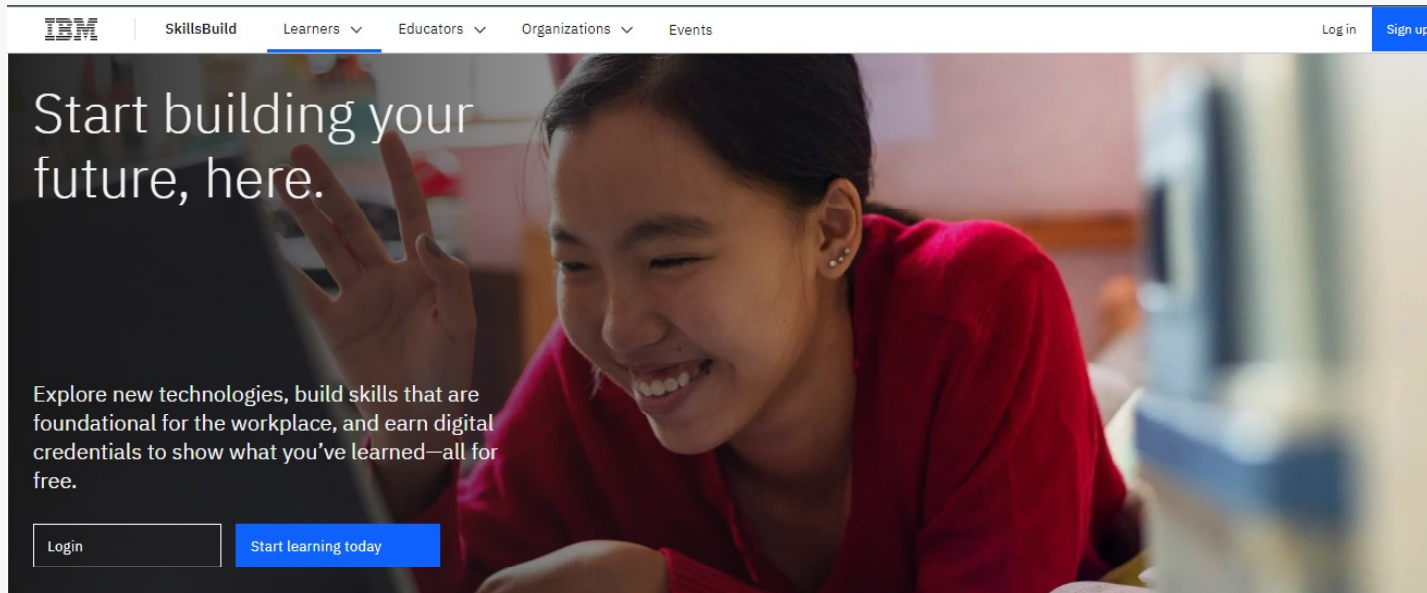


# Resource to prepare for FTO



IBM Skills build

→ <https://skillsbuild.org/students>



“The SkillsBuild course I took was great because it allowed me to learn new and useful computer skills. [I built a] chatbot focused on educating the public on the Salvation Army homeless shelter, [helping people] with how to get into the shelter, telling

# Explore the content



The IBM logo, consisting of eight horizontal stripes of varying shades of blue and grey.

SkillsBuild

Learners ▾ Educators ▾ Organizations ▾ Events

Log in Sign up

Course catalog

Technical skills ^

Artificial Intelligence

Blockchain

Cloud computing

Cybersecurity

Data science

Emerging technologies

IT support

Quantum computing

Web development

Workplace skills ^

Agile

Design thinking

Job readiness

Mindfulness

Professional skills

Expand your horizons ^

Principles of design

Sustainability

For educators

Teacher toolkit

Career-readiness toolkit

Curriculum enhancements

An illustration of a human head profile with circuitry inside, a lightbulb, and a gear, representing artificial intelligence.

Learning path  
Artificial intelligence

An illustration of a network diagram with nodes and lines, a globe, and a gear, representing blockchain technology.

Learning path  
Blockchain

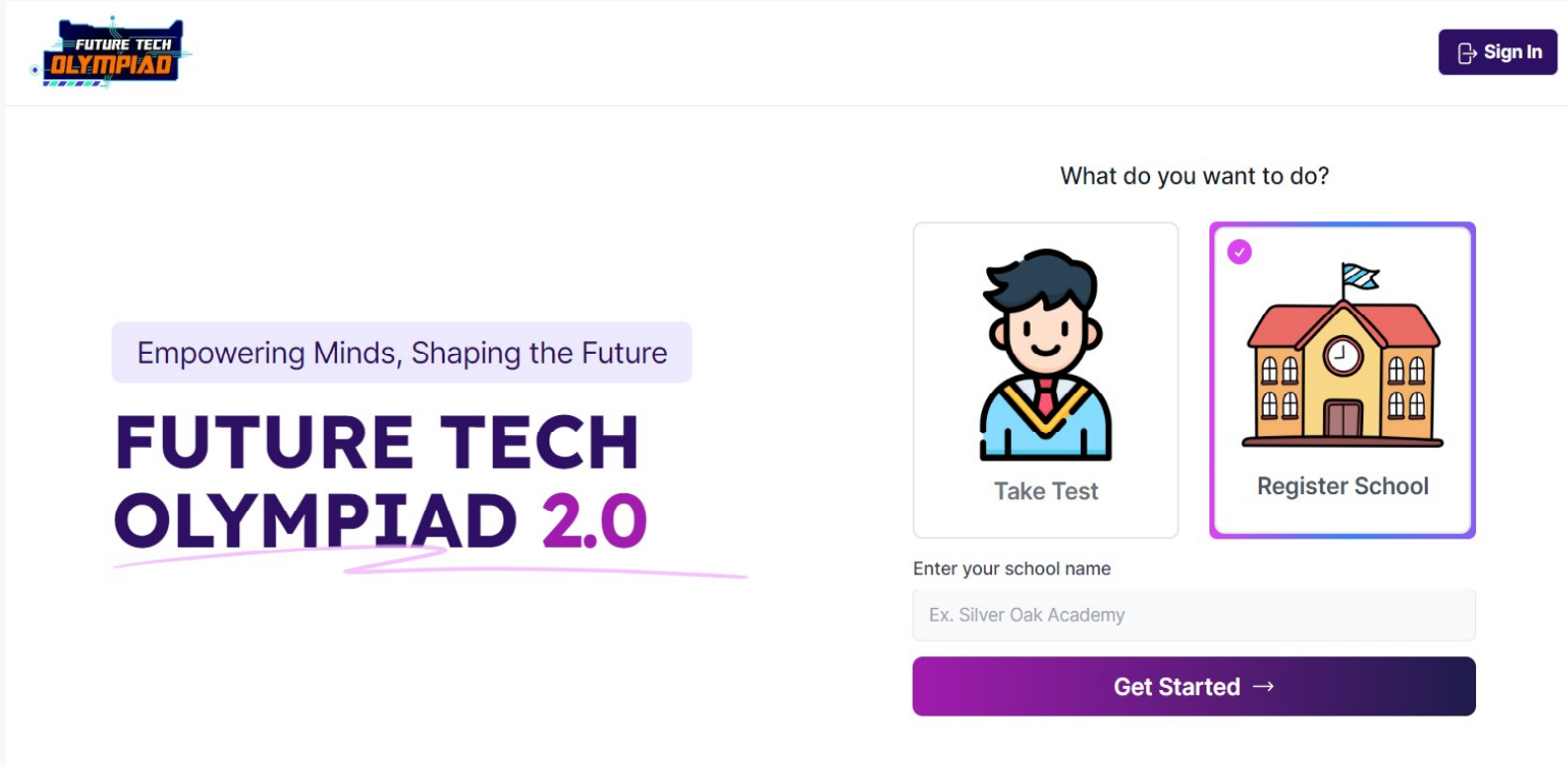
An illustration of a cloud with a gear inside, a folder, a laptop with a smiley face, and a globe, representing cloud computing.

Learning path  
Cloud computing

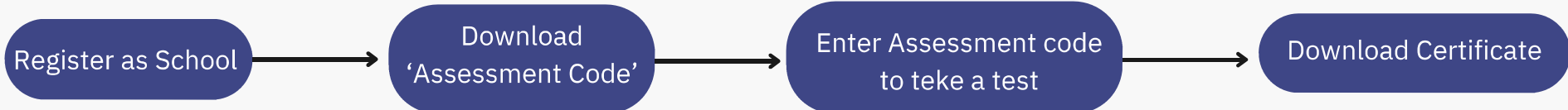
# For More Details



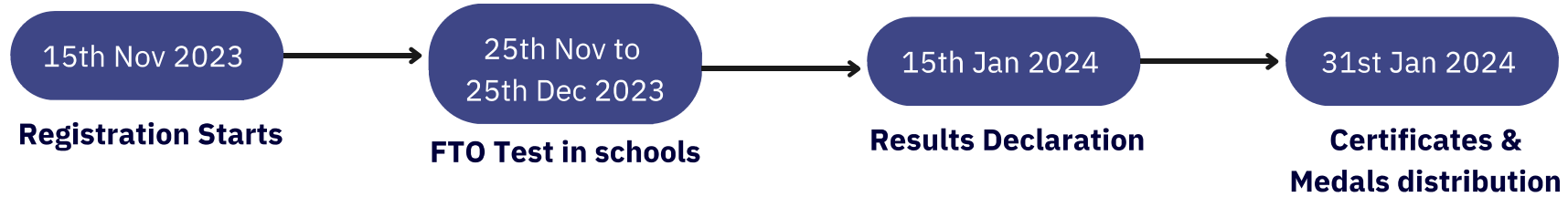
Visit: <https://futuretecholympiad.com/>



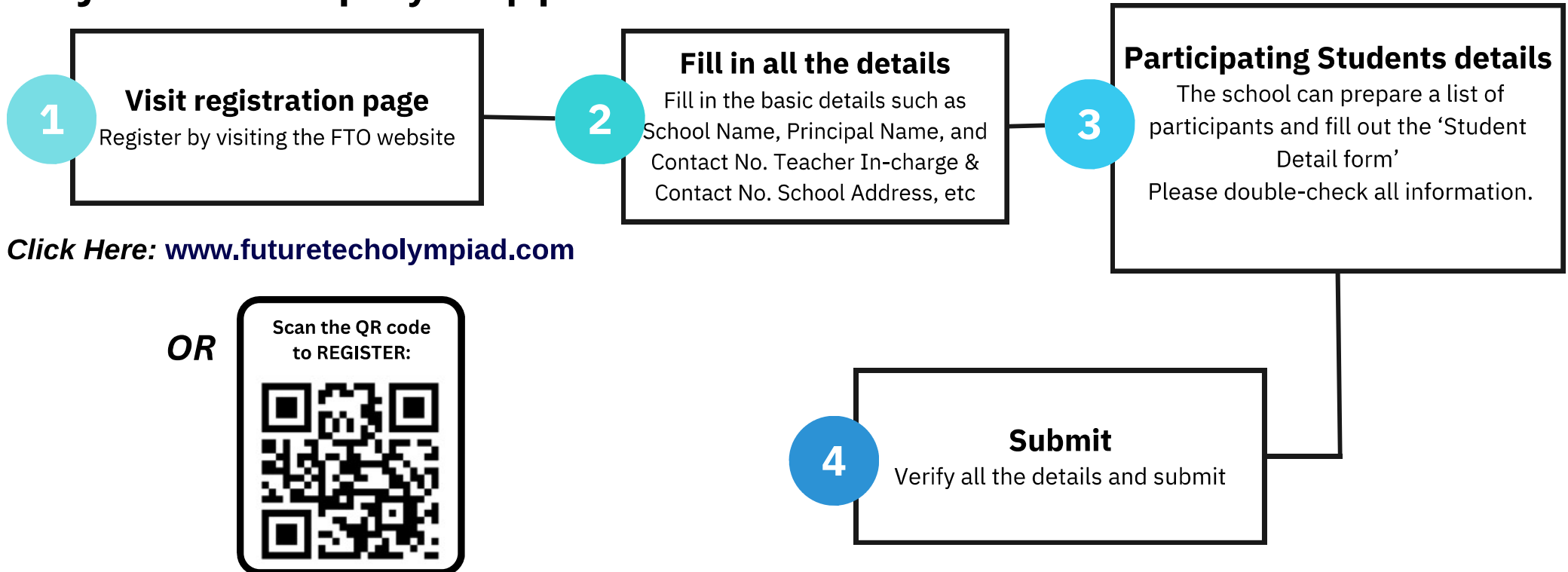
The image shows the homepage of the Future Tech Olympiad 2.0 website. On the left, there is a purple box with the text "Empowering Minds, Shaping the Future" and "FUTURE TECH OLYMPIAD 2.0" in large, bold letters. On the right, there is a section titled "What do you want to do?" with two options: "Take Test" (represented by a student icon) and "Register School" (represented by a school icon). The "Register School" option is highlighted with a purple border and a checkmark. Below the "Register School" option, there is a text input field for "Enter your school name" with the example "Ex. Silver Oak Academy" and a "Get Started →" button. In the top right corner, there is a "Sign In" button.



# Timeline



## Registration : Step-by-step process





# Guide for students to appear in the Olympiad



1

**Visit FTO Site**

[www.futuretecholympiad.com](http://www.futuretecholympiad.com)


OR

Scan the QR code to appear in the test




2

What do you want to do?



Take Test



Register School

Enter your assessment code

Ex. A3fJOiP0

**Get Started →**

3

**Participate in Olympiad**

Students need to enter 'Assessment Code' shared by the school; student's name will appear on the screen, verify it, and start taking a test.

*(Schools need to download the assessment codes from the "School Dashboard", which will be generated automatically s soon as school upload the list of students).*

4

**Submit**

Verify all the answer and submit

# Overview



- Olympiad Date: 25th November to 25th December 2023
- Test Mode: Online
- Eligibility: Class 9 to 12
- Style: MCQ Based (60 MCQs)\*

*\*There will be a different set of questions for each grade.*

- Enrollment Fees: Free

## **The following topics will be covered in the FTO 2.0,**

- Cyber Safety
- Artificial Intelligence (AI) and Machine Learning
- Augmented Reality (AR) and Virtual Reality (VR)
- Data Science
- General Computer Science

**[Click Here](#) for a detailed syllabus.**

# Register now

[www.futuretecholympiad.com](http://www.futuretecholympiad.com)



[contact@futuretecholympiad.com](mailto:contact@futuretecholympiad.com)

Scan the QR code  
to REGISTER:



# FutureTech Olympiad

**Report-Future Tech Olympiad  
(First Edition)**

*Date: February-May 2023*







# FutureTech Olympiad

## About Future Tech Olympiad:

The Future Tech Olympiad is more than just a competition; it is a celebration of the "Creators of Future Technology" – the students and teachers who serve as responsible netizens and guardians of a safe and secure cyberspace for all. Designed to identify competent leaders in Digital India, the Olympiad aims to foster a healthy digital environment by assessing participants on their basic cognitive skills, future technology skills, and ethical use of technology.

The Olympiad provides a unique opportunity for participants to comprehend, apply, analyze, synthesize, and evaluate their technological understanding within the community of young learners in both rural and urban India. It serves as a national platform for showcasing talent, contributing to the collective effort of building a future-ready digital nation.

# Process Flow

01

## Registration

School can register from 12th Dec 2022 along with participating students details.

02

## Screening Round

School can conduct an MCQ based test on any convenient day between 19th Dec to 7th Jan, 2023

Online or Offline.

Result will be shared on 12th Jan, 2023.

03

## Alpha Level

Selected students will work on to create E-Poster/Poster and write-ups on any of given topic.

Last Date of submission is 20th Jan.  
Result will be shared on 24th Jan.

04

## Beta Level

Selected students from previous round will need to create campaign in your School/Online using the posters to educate parents or community about.

Last date to submit the report is 25th Jan to 1st Feb, result will be shared on 5th Feb.

05

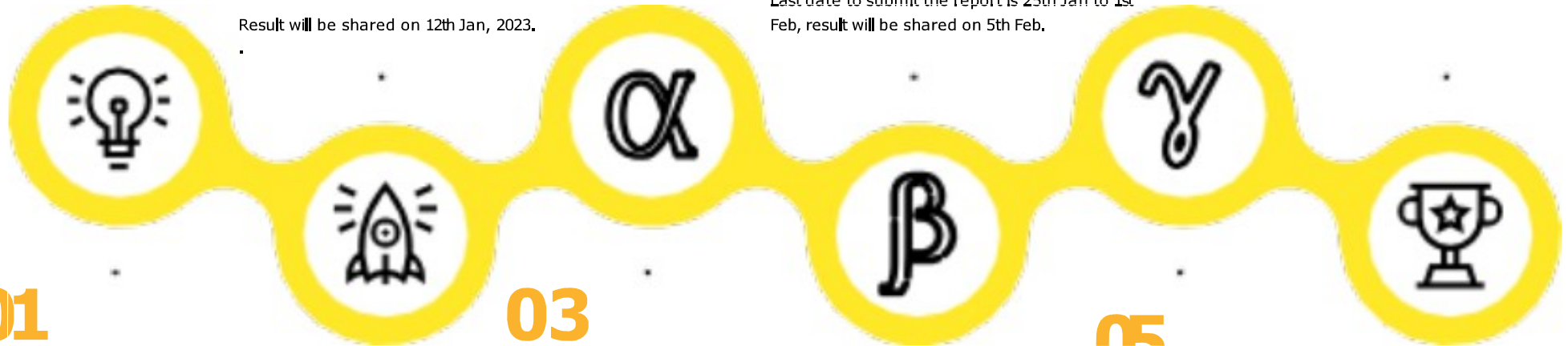
## Gamma Level

Selected entries for final round will create a presentation to showcase your campaign work on 8th to 11th Feb.

06

## Result

Results will be declared on 15th of Feb 2023.



# Olympiad Highlights - Classes 6<sup>th</sup> – 12<sup>th</sup>

## Screening Round: MCQs-Based Test:

The journey began with a rigorous screening round, testing the participants' foundational knowledge through a set of Multiple-Choice Questions (MCQs).

Over 35,000 students from 600+ different schools participated in this initial phase, showcasing the widespread enthusiasm for technology.

### SCREENING ROUND

**Over 35,000 Students from 600 + schools**

## Alpha Level: Problem Identification and Immersive Tech Solutions:

Approximately 5000+ students who excelled in the screening round moved on to the Alpha Level. Here, teams collaboratively identified real-world problems and curated solutions using immersive technologies. The outcome included vibrant E-Posters, Posters, and detailed write-ups reflecting their innovative solutions.

### ALPHA LEVEL

**5,000+ Students**

### BETA LEVEL

**400 Students**

## Beta Level: Video Presentations on Immersive Tech Solutions:

Around 400 students demonstrated their prowess by transforming their solutions into compelling video presentations at the Beta Level. This phase emphasized effective communication and the ability to articulate complex ideas in the realm of future technologies.

### GAMA LEVEL

**50+ students – 22 teams**

## Gamma Level: One-to-One Presentations to Judging Panel:

The pinnacle of the Olympiad, the Gamma Level, featured 50+ students in 22 teams presenting their projects one-on-one to a distinguished judging panel. This level of scrutiny allowed for an in-depth evaluation, highlighting technical excellence and practical applications of immersive technologies.

# Stages Highlights

## **Innovative Projects:**

Participants presented a diverse range of projects spanning AI, biotechnology, sustainable energy, and more, showcasing a deep understanding of current challenges and a commitment to innovative solutions.

## **Robotics Showcase:**

The robotics competition featured autonomous robots designed for tasks from disaster response to industrial automation, showcasing the integration of robotics into daily life.

## **AI-driven Solutions:**

AI took center stage with applications in healthcare, finance, and smart cities, demonstrating the potential of machine learning and neural networks in addressing complex problems.

## **Green Technologies:**

Sustainability was a recurring theme, with a focus on eco-friendly solutions, from renewable energy sources to waste management systems.

## **Virtual Reality and Augmented Reality Displays**

Immersive experiences through VR and AR displays were demonstrated for applications in education, training, and entertainment.





# RESULTS

Out of the Gamma Level presentations, following four exceptional teams emerged as winners, recognized for their outstanding innovation and problem-solving skills

Name of School	State	Students Name	Class Group
Bhavans Vidya Mandir Eroor	Kerala	Riyan Davis Priansh Nair	Class 6 to 8
St. Mary's School, Dwarka	Delhi	Nakul Arora Swastik Vashisht	
Krishna Public School International	Chhattisgarh	Arunav Gupta Rounak Mishra	
Gyan Bharati School	Delhi	Pritha Chawla Aarna Wadhawan	Class 9 to 12

# CONCLUSION

The Future Tech Olympiad 2023 was not just a competition; it was a transformative journey for participants, emphasizing responsibility, ethical innovation, and the limitless possibilities of technology. As we look to the future, the Olympiad's showcased ideas and projects serve as beacons of inspiration, illustrating the potential of technology to address global challenges and improve lives worldwide. The event celebrated not only advancements but also the spirit of responsible and ethical innovation, shaping the future of technology and creating a path towards a digitally empowered India.



# Insights from Future Tech Olympiad Participants



**Student voices on Future Tech Olympiad**

During the Future Tech Olympiad, we have learned the valuable skill of identifying problems within society and crafting innovative solutions. Notably, our Honorable Prime Minister has taken significant steps in the realm of immersive technology, and this Olympiad represents a commendable stride in that direction.



**Ronak Mishra**  
Krishna Public School International, Chhattisgarh



**Student voices on Future Tech Olympiad**

We are grateful for the opportunity to showcase our skills and talent on the national stage through the Future Tech Olympiad. Our appreciation goes to 1M1B and IBM for organizing and conducting this Olympiad.



**Arunav Gupta**  
Krishna Public School International, Chhattisgarh

# Finalists' Virtual Project Presentations

Zoom Meeting

Recording

9 people entered the waiting room

View

Pratiksha Chowdhury

Rahul Moorthy

Sushama M

Abhiram Narayan

Viji A G JAYAPREETHI

Jayashree Krishnan

Pratiksha Nair

Adarsh Gupta

Madhumala

20244

T.S. Deeksha

Rethik Sri Sallam Sallam

T.S. ECK

Adhya

Swastik Vashishth II St. Mary's S

St. Mary's Scho...

P

Ananya.N VSSC...

pranav

Admin

Josh Nathan

ROUNAK MISHRA

Alroy Adriel Lobo

Pushti

Problem Statement

- Healthcare is a critical aspect of our lives.
- Traditional healthcare systems often face challenges in terms of accessibility, efficiency, and patient experience.
- We believe that technology can revolutionize the healthcare industry and make it smarter, more convenient, and sustainable.

Do you believe that traditional medical systems lack the necessary tools to provide the best patient

Word cloud: healthcare, insurance, people, companies, coverage, pay, money, care, need, health, industry, medicine, national, year, family, day, like, know, another, data, single, expensive, think, since, cover, healthy, food, access, company, Americans, Amer...

Sukruti Gowda is presenting

Semi-Autonomous Electric Vehicles

S.A.E.V - A Revolutionary Solution

SHRISUTHAN M

SAQUIB AKHTAR 173

11 others

EPOCHS- Environmental Perspective-Oriented Cleaning Hyperefficient Systems

EPOCHS is a vehicle that is designed with a digger to collect garbage from a specific area, ensuring there is no human contact.

The collected garbage will be segregated into biodegradable and non-biodegradable garbage inside the vehicle itself.

Diagram labels: Non-biodegradable wastes, Biodegradable wastes, Hydraulic Elevator, Hopper Funnel, Segregation System, Mixing Motor.



# Gallery









# Insights from Future Tech Olympiad Participants



**Student voices on  
Future Tech Olympiad**

The Future Tech Olympiad was an enlightening experience where I learnt about the various skills that we need as students to become technologically advanced individuals for our future. The various rounds of this competition gradually incorporate ICT and its applications that gives us a first hand experience in developing contemporary ideas that can incorporate artificial intelligence in full strength.

**Aarna Wadhawan**  
Gyan Bharati School, Delhi



**Student voices on  
Future Tech Olympiad**

The Future Tech was an enlightening and educational experience that facilitated me to work hard and broaden my knowledge of AI. Thank you to the 1M1B for this wonder Olympiad.

**Pritha Chawla**  
Gyan Bharati School, Delhi



Empowering Minds, Shaping the Future

**[www.futuretecholympiad.com](http://www.futuretecholympiad.com)**



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