

GETA Young Scientist Program

Vision

GETA Young Scientist Program grooms High School Students as Innovators and Scientists for India. It aims at a 0.1 percent success rate, i.e., one in 1,000 Students influenced by this Program becoming an Innovator or a Scientist for the Nation.

Mission

1. **GETA Talent Tests:** Promote interest in Science by means of Contests like Quizzes, Spelling Bee, Elocution, Debating, Essay Writing, Drawing, Posters, Presentations, Skits, Short Films, etc.
2. **Reputed Science Competitions:** Promote participation by High School Students in District, State, National, and International Exhibitions and Competitions related to Science and Innovation.
3. **Innovation Kits & Workshops:** Promote Talent and Interest among students to develop/create/assemble new things by means of Young Scientist Workshops; Support Innovation by means of designing and making reusable Kits and Spare Parts; Groom Innovation culture and practice through Training and Workshops for Teachers as well as Students.
4. **Science & Innovation Labs:** Facilitate Innovation Labs like Atal Tinkering Labs (ATLs), Agastya Foundation Labs, Butterfly Fields Labs, BILD Centres, etc. in High Schools; Recognize and reward best Labs and best practices; Facilitate Student Education Visits to Science Labs and Science Museums.

Activities

The following activities are to take off this Program. More such activities would be picked up as the program gains insight and feedback. Important aspect is to run these activities in volumes to maximise the reach to students.

1. GETA Young Scientist Quizzes Online
2. GETA Young Scientist Pen & Paper Science Quizzes in Schools, NGOs like Rotary
3. GETA Young Scientist Essay Writing Contest Online
4. GETA Young Scientist Essay Writing Contest in Schools, NGOs like Rotary

5. GETA Young Scientist Elocution Contest Online
6. GETA Young Scientist Elocution Contest in Schools, NGOs like Rotary
7. GETA Young Scientist Drawing Contests Online
8. GETA Young Scientist Drawing Contest in Schools, NGOs like Rotary
9. GETA Young Scientist Innovation Workshops in Schools, BILD Centres, ATLS
10. GETA Young Scientist Science Exhibitions and Competitions Online
11. GETA Young Scientist Science Exhibitions and Competitions in Schools, BILD Centres, ATLS, NGOs like Rotary
12. Sponsorship & Facilitation for Student Participation in District, State, National, and International Science Exhibitions and Competitions leading to Winners
13. Innovation Workshops and Trainings to Teachers, Educators
14. GETA Young Scientist Channel on Telegram, Social Media
15. GETA STEM Mentors Platform for Brainstorming and Strategizing

Motive (Problem Statement)

Around the early 90's, a few countries like China, Philippines, Egypt, Pakistan, and India were almost at par in terms of FX Reserves, Exchange Rates, etc. India used to take pride in English-speaking youth in the country. Used to think that the future belongs to India. China was known to be for duplicate products. Made cheap and unreliable.

Over the following years, while most of the above countries lost significant value of their currencies and struggled to maintain decent FX Reserves, China emerged as a strong leader in many ways. Its GDP, FX Reserves, Industrial Growth, English Skills of youth, etc. went so far ahead that other peer nations are not even near to it at present. From making duplicate products to making world's best quality Apple phones, from highest number of patents per year to building artificial Sun and Moon, from cloning animals to launching 5G, from building own aeroplanes to sending totally indigenous satellites, from being a manufacturing hub of the world to having local Internet Search Engines and e-commerce infrastructure, from Defence Arms to Cyber Security, China has gone to a point of challenging Superpowers like US and EU.

Japan, South Korea, and to a reasonable extent, Ireland have similar stories. At the same time, India's imports have been steadily increasing each year compared to exports. Like it or not, because most of the patents are owned by foreign corporations, India has become a major customer to these nations. Indian professionals, even the most acclaimed software engineers, have become educated labour earning money for foreign MNCs. In many a context, we use products and patents of someone else rather than creating our own.

How did these countries achieve this? **Just focused and persistent strategy on Innovation. Creating new products, new technologies, new solutions, and new patents. Better and cheaper.** As we speak, while we have some leadership in industries like Healthcare and Pharma, we are at least two generations behind China, US, and EU to catch up and to be called a Developed Nation. At the current pace, the gap only widens.

So, there is a dire need in India to push Innovation forward. Governments are doing their bit. NGOs and Learned Citizens need to do their bit too. So much has to be done to catch up with the World. To become a World Leader. That is the motivation behind GETA's BILD Initiative and GETA Young Scientist Program.

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