



TURNING YOUR IDEAS INTO REALITY

A COMPLETE SOLUTION FOR STEM EDUCATION



Science



Technology



Engineering



Mathematics

Lab Setup | Tools & Equipments | STEM Kits & Curriculum | Mentorship | Competitions | STEM Space | Corporate Events

Summer Camp | Teachers Training | Internship Programs | STEM Workshops | Field Trip

Coding | Electronics | Artificial Intelligence | 3D Designing & Printing | Robotics | Machine Learning | IOT | Tools Handling | Drone

ABOUT STEMORBIT

STEMOrbit has been dedicated to enhancing STEM education across India since 2019, offering comprehensive solutions to nurture innovation and equip students aged 6 to 22 with essential skills for the future. We partner with schools/educational organisations to provide a world-class curriculum in STEM fields such as Robotics, Coding, Artificial Intelligence, Internet of Things (IOT), Drones, Machine Learning, 3D Designing & printing and Electronics.

Our approach focuses on hands-on learning, allowing students to explore, experience, and innovate. We believe that every student should have the chance to engage with cutting-edge technology and develop practical skills. To support this, we offer high-quality educational kits and lab setup solutions that make complex concepts accessible and engaging.

Our mission is to make impactful STEM education available to students across India, empowering the next generation of innovators. Through our programs, we are helping shape a brighter, more technologically advanced future.

WHY STEM?

as per (NATIONAL EDUCATION POLICY)



HOLISTIC DEVELOPMENT:
Combines STEM with arts for a well-rounded education.



FUTURE CAREERS:
Prepares students for tech-driven jobs.



EQUITY:
Ensures STEM access for all, including underrepresented groups



INNOVATION:
Encourages hands-on learning and problem-solving



TECHNOLOGY INTEGRATION:
Enhances learning with digital tools



CRITICAL SKILLS:
Develops problem-solving and critical thinking



GLOBAL COMPETITIVENESS:
Boosts India's position in the global economy

OUR OFFERINGS

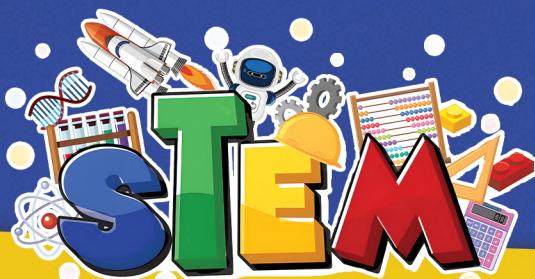


SFP
(STEM Foundations Program)
(For Grade 1 to Grade 5)

SEP
(STEM Excellence Program)
(For Grade 6 to Grade 12)

STEM FOUNDATIONS PROGRAM

(For Grade 1 to Grade 5)



DISCOVER A COMPREHENSIVE STEM EDUCATION SOLUTION DESIGNED TO IGNITE CURIOSITY AND FOSTER A LOVE FOR LEARNING



12 ENGAGING STEM PROJECTS:
Unique concepts and complete materials for hands-on learning



PROGRESS TRACKING:
Learning outcomes, reports, and feedback



TAKE PROJECTS HOME:
Reinforce and share learning at home



CERTIFICATION:
Certificates for students and teachers



CUSTOMIZABLE CONTENT:
Tailored to school needs and standards



COLLABORATION:
Projects promote teamwork and are age-appropriate



END-OF-YEAR EXHIBITION:
Showcase projects to the community



STEP-BY-STEP GUIDES:
Clear instructions for easy project completion



MINIMAL SCREEN TIME:
Focus on interactive activities



COMPREHENSIVE SUPPORT:
Teacher training, program management, and parental involvement



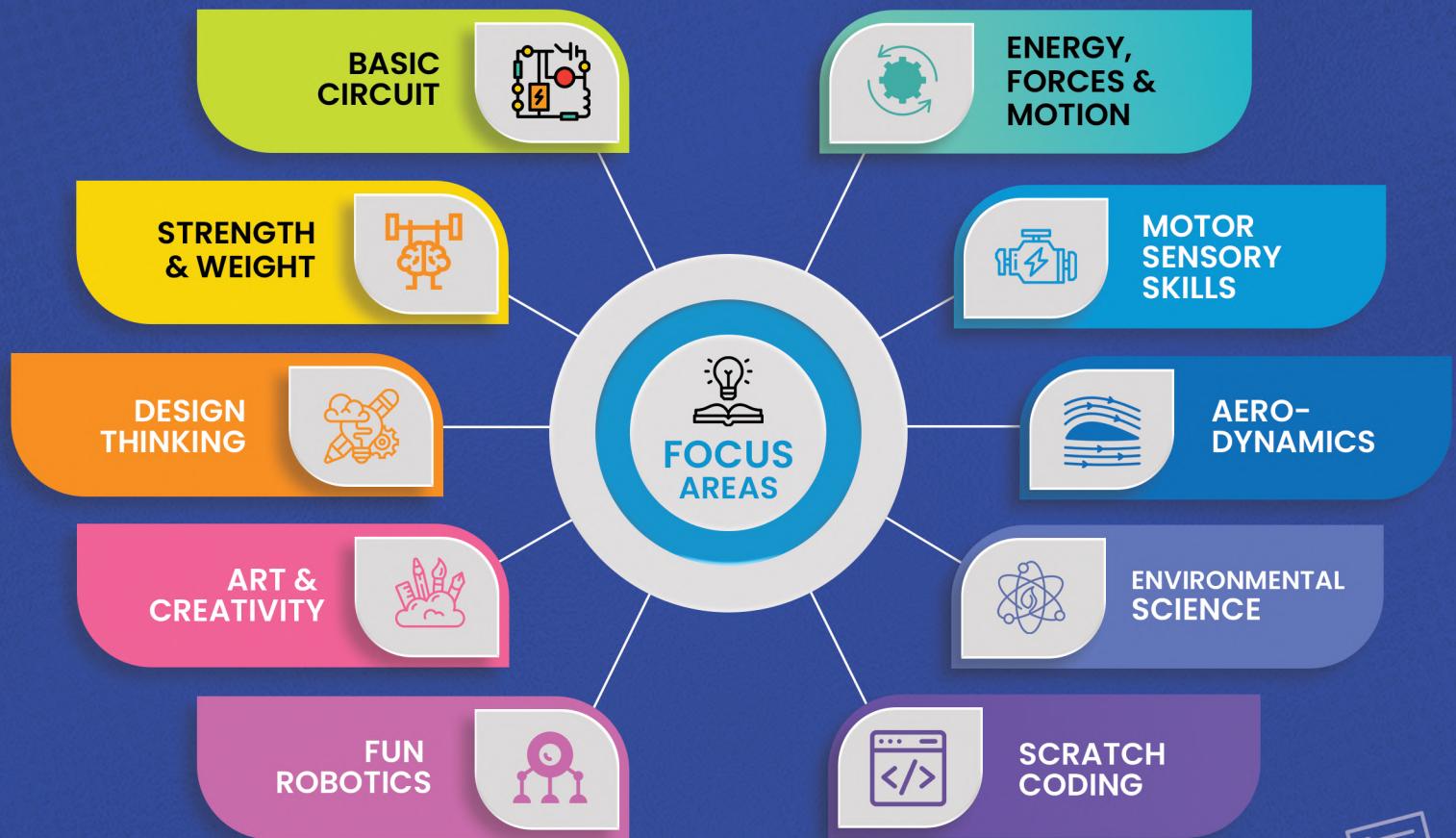
INTERACTIVE & ECO-FRIENDLY:
Real-world applications with sustainable materials





GRADE 1–5

(Key concepts)



• STEM LEARNING KITS •



WHY YOUR SCHOOL NEEDS A STEM / TINKERING LAB?

A STEM lab is essential for enhancing students' learning through hands-on, practical experiences. It fosters innovation, creativity, and critical skills like problem-solving and teamwork, preparing students for future STEM careers.

1. PRACTICAL LEARNING

Students work on real-life situations to use what they've learned, helping them understand and remember better.

2. FOSTERING INNOVATION

Encourages creative problem-solving through experimentation and prototyping.

3. SKILL DEVELOPMENT

Builds critical thinking, teamwork, & technical proficiency essential for modern careers.

4. CAREER PREPARATION

Provides early exposure to STEM tools and technologies, preparing students for future careers.

5. STUDENT ENGAGEMENT

Offers an interactive, personalized learning environment that boosts motivation & interest.

6. LIFELONG LEARNING

Cultivates curiosity and independent exploration, fostering a love of learning.

7. ADDRESSING GLOBAL CHALLENGES

Prepares students to tackle real-world issues like sustainability & technology.

8. EDUCATIONAL STANDARDS

Aligns with national and international curricula, supporting academic standards.

9. SCHOOL REPUTATION

Enhances the school's reputation by offering cutting-edge STEM education.

10. GENDER INCLUSIVITY

Provides equal opportunities for all students, helping bridge the gender gap in STEM fields.



STEM EXCELLENCE PROGRAM

(For Grade 6 to Grade 12)



EMPOWERING STUDENTS IN TECHNOLOGY AND INNOVATION

HOW TO SETUP A STEM/TINKERING LAB

TOOLS AND EQUIPMENT

Package 01: Electronics Development, Robotics, Internet of things and Sensors

Package 02: Rapid Prototyping (3D Printer, Filaments and other Supporting Material)

Package 03: Mechanical, Electrical and Measurement Tools

Package 04: Power Supply & Accessories and Safety Equipment

Advance Prototyping STEM Kits

INFRASTRUCTURE

3D Design, Lab Furniture, Graffities, Branding, Storage

Information & Communication Technology (Laptops, Computers, Interactive Panels and Projector)

PACKAGE 01 | Electronics Development, Robotics, Internet of Things and Sensors



KEY FEATURES

- **Genuine Products**
- **Labelled Packaging**
- **2 Years Comprehensive Warranty**
- **Instruction Manuals**
- **Premium STEM Kits**
- **Development Boards**

PACKAGE 02 | Rapid Prototyping



KEY FEATURES

- Premium Machines
- Multi coloured Filaments
- Auto Levelling
- Open-Source Firmware
- Power Loss Recovery
- Heated Bed

PACKAGE 03 | Mechanical, Electrical & Measurement Tools

KEY FEATURES

- Branded Products
- Durability
- Commitment to Safety
- 2 Years Comprehensive Warranty
- Innovative Design
- Reliability



PACKAGE 04 | Power Supply & Accessories, Safety Equipment



KEY FEATURES

- Protective Gears
- Durable Materials
- Compliance with Standards
- Apollo First Aid
- Power Supply & Accessories
- Comfort and Fit



ADVANCE PROTOTYPING

STEM Kits



Mini CNC Machine

Mini Laser Cutting Machine



Robotics
Prototyping kit



3D Pen

Robotic Arm

Humanoid



EXECUTION OF SEP (STEM Excellence Program)

EXECUTION (VIA - ONLINE SESSIONS - OFFLINE SESSIONS)

TRAINING

- ▶ Teachers Training
- ▶ Technical Workshops
- ▶ Summer Camp
- ▶ Guest Lectures
- ▶ Safety Workshop
- ▶ Teachers Orientation Program
- ▶ Lab Management Program
- ▶ Record Maintenance Program

(Train students to develop a culture of innovation)

COURSES & CURRICULUM

- ▶ Mentorship
- ▶ Curriculum Design and Alignment
- ▶ Hands-On Learning Modules
- ▶ Resources & Materials
- ▶ Training & Professional Development
- ▶ Assessment and Evaluation
- ▶ Customization and Flexibility
- ▶ Continuous Improvement

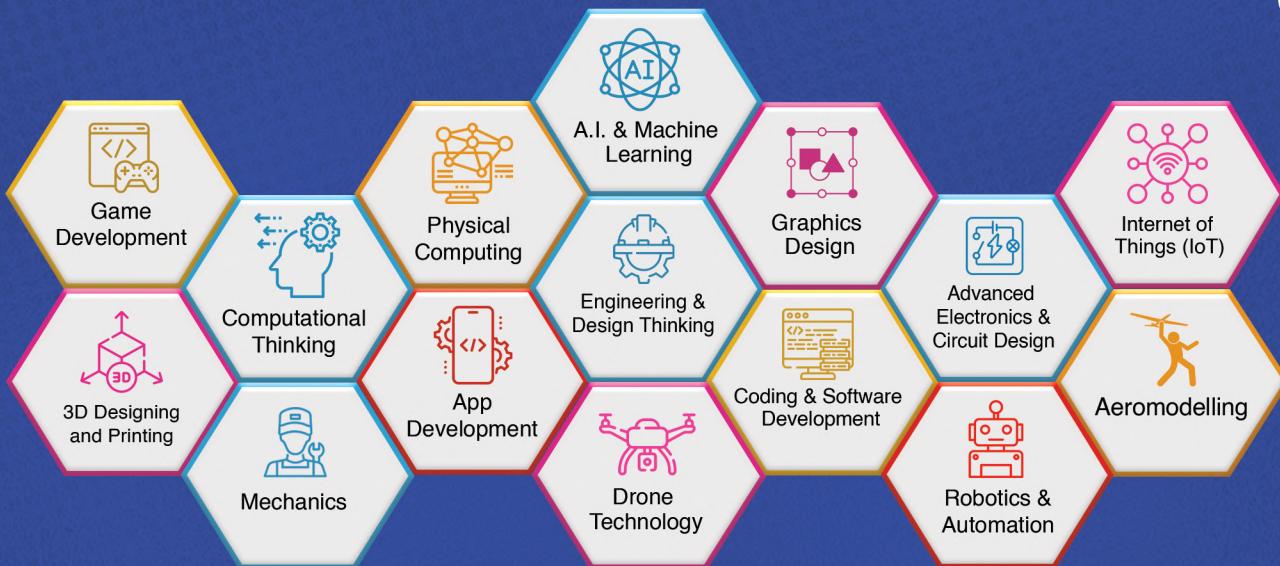
COMPETITION

- ▶ Competition Preparation (FLL, WRO, NASA, MICROSOFT IMAGINE CUP, NIT Tech-fests, IIT Tech-fests Etc.)
- ▶ Project Development Support
- ▶ Practice and Mock Competitions
- ▶ Presentation and Pitch Support
- ▶ Collaboration Opportunities
- ▶ Continuous Improvement and Support

OTHER SUPPORT

- ▶ Lab Inauguration Support
- ▶ On-Call Support
- ▶ Field Trips
- ▶ Guest Lectures
- ▶ Project Showcase
- ▶ Project with Parents Session
- ▶ Entrepreneurship Session

FOCUS AREAS



LAB EXECUTION STRATEGY

STEM LAB FOR ALL

Once the STEM Lab is installed, the school's academic calendar and timetable will be requested to ensure seamless alignment with the STEM curriculum. An orientation will be conducted for all students from 6th grade onwards. Following the orientation, students will engage in learning and collaborative work on various technologies, receiving training to prepare them for national and international competitions.

INNOVATOR TRACK

SELECTION



LEVEL 1

- Goal: Inspire & Ignite Passion
- Audience: Grade vi to xii
- Stage 1: Students having good design thinking capability will be selected
- No. of Selected Students: 100

LEARNER



LEVEL 2

- Goal: Take Participants from Zero to Learner Level
- Audience: Level 1 (100 Students)
- Stage 2: To learn and work on various technologies
- No. of Selected Students: 60

TINKERER



LEVEL 3

- Goal: Elevate the level of students from Learner to Tinkerer
- Audience: Level 2 (60 Students)
- Stage 3: To integrate learnt tools to built pre-define projects
- No. of Selected Students: 30

MAKER



LEVEL 4

- Goal: Elevate the level of students from Tinkerer to Maker
- Audience: Level 3 (30 Students)
- Stage 4: To apply innovation process to make solutions to given problems
- No. of Selected Students: 15

INNOVATOR



LEVEL 5

- Goal: Elevate the level of students from Maker to Innovator
- Audience: Level 4 (15 Students)
- Stage 5: To identify real life problems & apply innovation process to make solutions (self -motivated students working on their own)
- No. of Selected Students: 10

SOC (CLUB)



LEVEL 6

- Goal: To participate in competitions (By AIM and Others) and create a culture of innovation.
- Audience: Level 5 (10 Students)
- Stage 6: To create a self running system by students for students
- These 10 students will be the Board Members of STEM Orbit Club

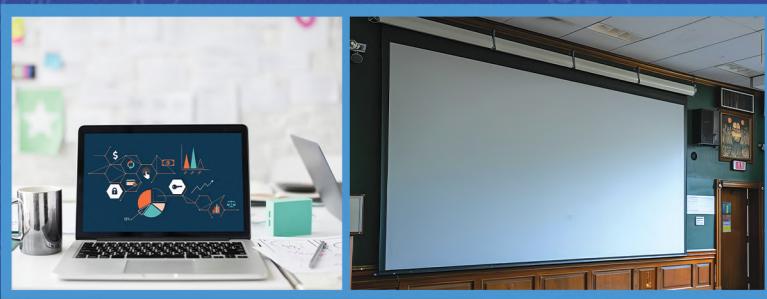
INFRASTRUCTURE



3D DESIGN AND STEM LAB SETUP



LAB FURNITURE



LAPTOPS & PROJECTOR



STORAGE



GRAFFITIES & BRANDING

WHY CHOOSE US?



Customized Lab Program



Teacher Training Program



Summer Camps & Workshops



STEM Lab Management Program



Annual Curriculum Updates



Competition & Project Support



Field Trips & Inauguration Assistance



Branded and Genuine Products



24x7 Technical Support



Social Media Management Program



Our Presence **INAUGURATIONS**



Air Commodore Tejbir Singh (AOC)
Air Force School, 12 Wing Chandigarh



Dr. Sorabh Lakhpal (Head and Senior Dean
at Student Welfare Wing, LPU),
Delhi Public School, Jalandhar



Dr. Dharmendra Gill (Chief Engineer, Jal Shakti Vibhag),
The Phoenix School, Mandi, Himachal Pradesh



Dr. Avtar Singh, Dr. Subhash Choudhary (Retd. Prof &
Head NCERT New Delhi Retd. Prof. & Head Chemistry
Department, HPU Shimla) SD School, Una, HP



Sh. KL Tripathi (Executive Director, KV NHPC, Sainj),
KV Sainj, Himachal Pradesh



Capt. A J Singh (Managing Director),
Saint Soldiers Divine Public School, Panchkula



Shri Mandeep (IAS, Deputy Commissioner - Chandigarh),
JNV CHD



S. Harbinder Singh Vandra (Major General),
Sri Dashmesh Academy, Anandpur Sahib



Mr. Jai Ram Thakur (Chief Minister - Himachal Pradesh)
GSSS Padhar, Himachal Pradesh



Dr. Rajneesh Talwar (Dean DICE,
Chitkara University), Stemorbit Club



Shri Nayab Singh Saini (Chief Minister Haryana),
GSSS Kanipla, Haryana



ACHIEVEMENTS AND AWARDS



Stemorbit Club
(Token of Honor)



Chitkara University
(External Judge, DICE Technovision 2.0)



DBU
(MOU Signed)



JNV Science Congress



RISC LPU (Founder Member)



Saint Soldiers Devine Public School,
(Techfest Achievements)



Technoplane Awards



Innovation Challenge 2.0



ATL Marathon

National Winners
ATL Marathon 2021
Out of the 7000 creative minds, our innovators made it to the top 350.

Saksham Arora	Gurpreet Singh	Keshav Arora
Project - Replastic Theme - Energy & Transportation	Project-Encomp Finance Theme- Social Inclusion	

Congratulations to our young innovators!

National Winners
Congratulations to Our DIPSITES on securing position among the top 75 teams in ATL MARATHON 2021

Project - Replastic Theme- Energy & Transportation		

The future belongs to those who believe in the beauty of their dreams !

A LEAP TO EXCELLENCE
CONGRATULATIONS FOR MAKING IT TO THE TOP 75 IN PRESTIGIOUS ATL SPACE CHALLENGE 2021

ATL Space Challenge 2021		

Delhi Public School (ATL Marathon and ATL Space Challenge)

TRAINING AND WORKSHOPS



MEDIA PRESENCE



Inauguration of Atal Tinkering Lab



In a unique ceremony at Air Force School, 12 Wing AFS, Chandigarh, Atal Tinkering Lab was inaugurated by students and staff of the school in the presence of Air Commodore Tejbir Singh, Air Officer Commanding AFS 12 Wing, Chandigarh and chairman of the school.

With this event, the school proudly set its steps into the noble mission of mentoring student innovators by setting up a state-of-the-art Atal Tinkering lab. In the lab, students learned through exploration of their creativity while having fun, and their entrepreneurial spirit was developed during the inauguration ceremony. Robo soccer, 3-D printer, drones and bluetooth controlled car creation and many more activities were organized and the esteemed guests. At the end of the interactive session, the chairman congratulated the school.

सत्रावधी शिरोमणि ने कला पद्धति करने वालों में से

बुलेगी अलटरा माडरन विगिआनक प्रैजेगामाला

शिरोमणि ने कला पद्धति करने वालों में से बुलेगी अलटरा माडरन विगिआनक प्रैजेगामाला की उपलब्धि की।



बुलेगी अलटरा माडरन विगिआनक प्रैजेगामाला की उपलब्धि की।

ATAL TINKERING LAB OPENED



An Atal Tinkering Lab (ATL) - Central Government of India initiative, was inaugurated at Delhi Public School to facilitate innovation, foster scientific temperament and entrepreneurial spirit amongst the students. The ceremony began with the unveiling of the inauguration plaque entitled ATL Lab followed by cutting of a ribbon to mark the opening of the lab. The ceremony was presided over by PVC Thakur Avtar Singh, the chief guest Dr. Surabhi Lalwani, Professor, Senior Dean and Head for Division for Student Welfare in Lovely Professional University, CAO Main and Principal Rita Kaur. In the presence of Mr. Gurpreet Singh, Director of Academic Affairs and equipment of robotics, science, electronics, sensors and other updated

नवोदय रस्कूल में अटल टिकिरिंग लैब शुरू



रस्कूल ने शाही के नेटवर्क-25 में पाली अटल टिकिरिंग लैब का शुरूआत किया गया। इस लैब का उद्घाटन नवोदय अविभाग के द्वारा कर दिया गया है। उन्होंने एक नवीनी शिक्षा और सांકेतिक नीति का लालिया दिया है। इसलिए लैब का शुरूआत करने का उद्देश्य करते ही उन्होंने लालिया दिया है। इसलिए लैब का शुरूआत करने का उद्देश्य करते ही उन्होंने लालिया दिया है।

सरस्वती विद्या मंदिर में टिकिरिंग लैब का शुभारंभ

जास, सरस्वती विद्या मंदिर विद्यालय का अधिकारी कुमार ने शुभारंभ किया। विद्यालय से पहुंची विद्यार्थी को टिकिरिंग लैब में अनुकूल विद्यालय का शुभारंभ किया।



विद्यालय के छात्रों के द्वारा योग्य विद्यार्थी को टिकिरिंग लैब में अनुकूल विद्यालय का शुभारंभ किया।

डी.एम. ने किया प्रथम अटल टिकिरिंग लैब का उद्घाटन



ਬਚਿਆਂ ਦੀ ਪ੍ਰਤਿਭਾਨੂੰ ਲੱਗਣਗੇ ਚਾਰ ਚੰਨ

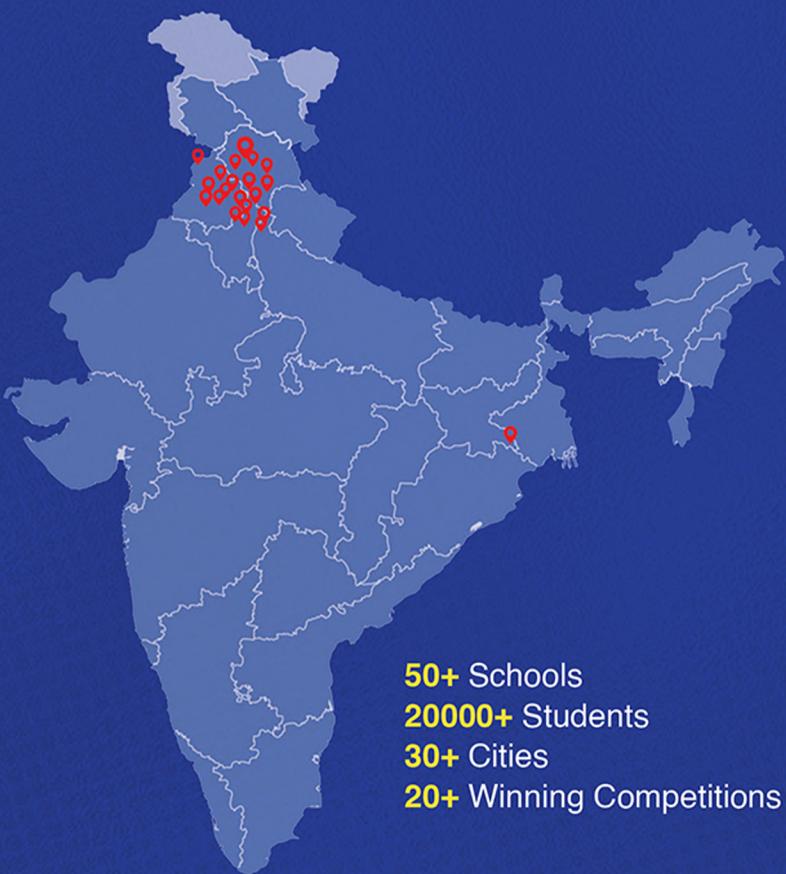
ਬਚਿਆਂ ਦੀ ਪ੍ਰਤਿਭਾਨੂੰ ਲੱਗਣਗੇ ਚਾਰ ਚੰਨ



ਜਵਾਹਰ ਨਵੋਦਿਆ ਵਿਦਿਆਲਿਆ ਅਵਾਨ ਵਿਖੇ ਅਟਲ ਟਿਕਿਰਿੰਗ ਲੈਬ ਦਾ ਉਦਘਾਟਨ



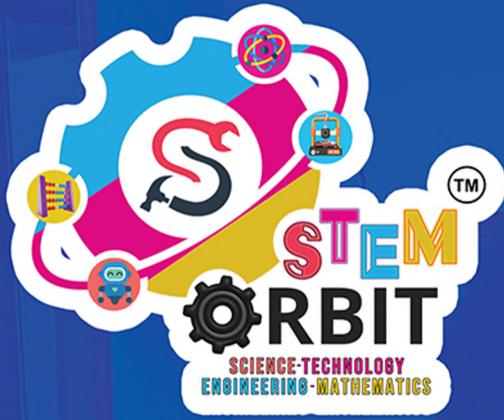
ASSOCIATED EDUCATIONAL PARTNERS



50+ Schools
20000+ Students
30+ Cities
20+ Winning Competitions



many more



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