ASTRO PATHSHALA

Beyond Books, Beyond Earth, Into the Future.



ROBOTICS | AI | ASTRONOMY | SPACE TECH | AVIONICS | AR/VR

WHY ASTRO PATHSHALA?

NEP 2020

Experiential Learning for Every Student

- Activity-Based Learning
- Inquiry & Discovery
- Critical Thinking
- Problem Solving
- Creativity & Innovation
- Interdisciplinary Learning
- 21ST Century Skills

Our STEAM Labs transform theoretical concepts into practical learning experiences.

KAUSHAL BODH

Building Skills Beyond Textbooks

- Hands-on Activities
- Project-Based Learning
- Design Thinking
- Coding & Robotics
- Electronics & IoT
- Team Collaboration
- Scientific Temper

Helping students develop practical skills through real-world projects.

COMPOSITE STEM SKILL LAB

One Lab • Multiple Learning Domains

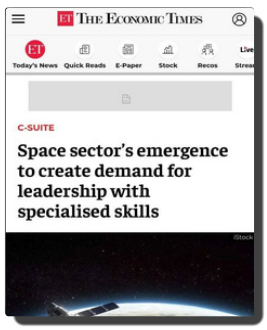
Astronomy | Robotics | Electronics | Space Tech

Aerospace | Coding | AI | Innovation & Prototyping

An integrated ecosystem where Science, Technology, Engineering, Arts and Mathematics come together.



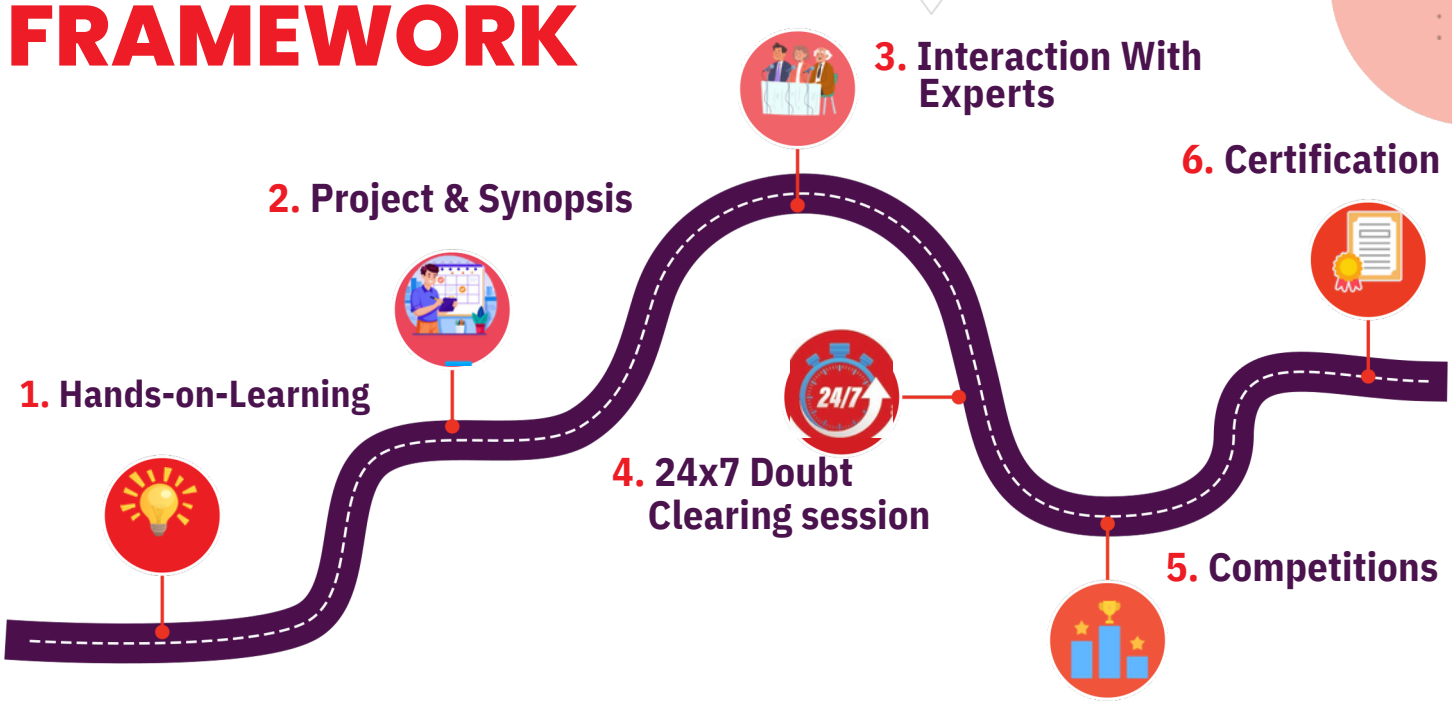




As an ISRO-verified Space Tutor, AstroPathshala is at the forefront of transforming STEAM education in India. With a STEAM-based curriculum that includes robotics, AI, astronomy and space sciences, we're inspiring young minds to be a part of India's rise as a global tech leader, proven by achievements like hosting the NASA International Space Challenge 2025-26 and partnerships with prestigious institutions.

:Collaborations:

FRAMEWORK



ROBOTICS & AI (Sample Workshop)



Rover Design

Build planetary rovers capable of navigating and exploring unknown terrains.



Coding & AI

Develop logical thinking through coding fundamentals and real-world AI applications.

ASTRONOMY (Sample Workshop)



Telescope Pointing & Handling

Learn how to align, track, and safely operate professional telescopes for sky observation.



Comet Making

Create comets to understand their composition and cosmic behavior.

SPACE TECHNOLOGY



Hydro Rocketry

Design and launch water-powered rockets using basic physics and aerodynamics.



Parachute Rocketry

Learn safe recovery systems by designing parachutes for model rockets.

AVIONICS



Avionics Systems

Explore the technology behind modern aircraft Learn about navigation, communication, and control systems.



Aircraft Navigation

Explore navigation system, sensors, and flight planning.

AR/VR & 3D PRINTING



Augmented Reality

Discover how digital information is overlaid into the real world.



3D PRINTING

Turn digital designs into physical objects using modern 3D printing technology.

KEY HIGHLIGHTS:

BRAINSTORMING | EXPERIMENTAL LEARNING | DEMONSTRATION

ROBOTICS & AI , ASTRONOMY, SPACE TECHNOLOGY, 3D PRINTING, AVIONICS, AR/VR.

- **Futuristic STEAM Lab**
  A fully equipped Astronomy, Space Tech, Robotics, and AI lab for experiential learning.
- **Grade-wise Curriculum (24 Workshops/Grade)**
  Structured STEAM learning aligned with NEP 2020 and NCF.
- **Expert Educators**
  Astroverse will provide trained STEAM educators to conducT engaging, hands-on workshops.
- **Hands-On DIY Kits**
  Students build rockets, satellites, drones, rovers, telescopes, AI projects, and more using custom kits.
- **Digital Learning Access**
  Handouts, e-books, videos, and exclusive resources available on the Astropathshala website.
- **Official Certification**
  All students will receive ISRO-certified certificates at the end of the academic year.











ADD AND WITH CURRICULUM

- **Free Entry to National Events**
  - Antariksh Vigyan Spardha–Space Science Quiz
  - Akashyan Spardha – Rocketry Competition
  - Space Tech Exhibition – Student Innovations
  - Stargazing Evening – Telescope night sky observation

NASA HACKATHON

- Training for Prestigious Space Hackathon- NASA international Space App Challenge.

STUDENTS RECEIVE GUIDANCE AND PREPARATION FOR:

- ISRO's YUVIKA Young Scientist Program
- NASA's Asteroid Search Campaign

Accredited by

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ASTROPATHSHALA

STEAM LAB

Astropathshala STEAM Labs are future-ready, multidisciplinary learning spaces curated for schools, integrating robotics, artificial intelligence, space technology, astronomy, avionics, AR/VR, immersive learning environments, interactive.





Inspiring Young Minds Through the Wonders of the Universe.

- ASTRONOMY THEMED LAB
- INFOGRAPHIC WALLS
- EDUCATIONAL MODELS
- SCHOOL FOCUSED
- DESIGNED BY ASTROVERSE







Equipped with a diverse array of scientific instruments.

FOREIGN EXCHANGE PROGRAMS

WORKSHOPS & CAMPAIGNS TO PROMOTE ASTRONOMY WORLDWIDE



At Astroverse, we believe that while state boundaries may divide us, the night sky unites us all. In collaboration with ExACT by Silver Hills, we hosted students from France for an immersive astronomical experience in India. The program featured night sky observation, solar viewing, astrophotography, light painting, and an engaging hydro rocketry session, creating a shared space for cultural exchange, curiosity, and learning beyond classrooms.





OUR EVENTS AT SCHOOL

Antariksha vigyaan spardha

Antariksha Vigyaan Spardha is an annual space science quiz where students test their knowledge and win exciting prizes.







Space tech exhibition

Students showcase their own space models, demonstrating creativity and scientific understanding.







Stargazing at Schools

Parents with their ward explore the night sky through a telescopes, guided by our expert astronomers.







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AKASHYAAN SPARDHA

INTER-SCHOOL HYDRO ROCKETRY COMPETITION



Akashyaan Spardha is a premier inter-school rocketry competition organized by Astropathshala. Students design, build, and launch hydro rockets and solid-fuel rockets, applying real principles of aerospace engineering and physics through hands-on innovation.The team whose rocket reaches the highest altitude in a successful launch is declared the winner.





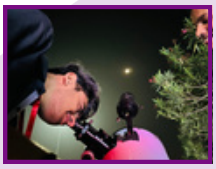
NASA SPACE APPS HACKATHON 2025-26



NASA International Space Apps Challenge is the world's largest global hackathon, conducted annually by NASA across countries worldwide. Astroverse proudly hosts the India edition, providing students and innovators with a platform to solve real-world challenges in space, Earth science, AI, and technology through innovation and collaboration.















UTTARAKHAND'S FIRST

STUDENT-LED NEAR-SPACE SATELLITE MISSION

Hands-on exposure to real space missions empowers students to dream beyond textbooks. In a historic first for Uttarakhand, school students successfully designed and launch a satellite payload using a high-altitude helium balloon from Haldwani, reaching near space. This mission gave young minds the rare opportunity to collect real atmospheric and biological data, inspiring scientific curiosity, innovation, and a deeper connection with space science.

Media Highlights

एस्ट्रोकलसात लैब का कोसी यूनिवर्सिटी के वाइस चान्सेलर डॉ के. पी. सिंह ने किया उद्घाटन



दीक्षांत इंटरनेशनल में शुरू हुई पहली 'एस्ट्रो पाठशाला'



हाइड्रो रॉकेटरी वर्कशॉप में बच्चों ने बोतलों से बनाए रॉकेट के कार्य स्थिगित

मल्लिकार्जुन स्कूल में खगोलशास्त्र का आयोजन



मल्लिकार्जुन स्कूल में शुरू हुई एस्ट्रोनॉमी, रोबोटिक की कक्षाएं









Nakshatra Mahotsav celebrating space science concludes in Takula village

TOI

स्कूली छात्रों के लिए होगी हाइड्रोरॉकेटरी प्रतियोगिता



स्कैप मटेरियल से बनाया भारत का सबसे ऊंचा और भारी राकेट मॉडल!



निष्प्रयोज्य वस्तुओं से एस्ट्रो पाठशाला की मदद से सेंट जोसफ कालेज के छात्रों ने महीनों की कड़ी मेहनत के बाद बनाया





निष्प्रयोज्य सामग्री से बनाया जीएसएलवी राकेट का 31 फीट ऊंचा प्रतिरूप



देश भर से देखने पहुंचे पर्यटक



अजय राठर, राहुल पांचरी, शुभम कुमार:

एस्ट्रो पर्सटन और अंतरिक्ष शिक्षा में एक नई राह दिखाते हुए एस्ट्रोनर्स एक्सप्लोरियस प्राइवेट लिमिटेड का स्टार्टअप करने वाले अजय राठर, राहुल पांचरी और शुभम कुमार को उनकी इस उपलब्धि के लिए हिन्दुस्तान अचीवर्स अवॉर्ड से सम्मानित किया गया। बचपन के तीन दोस्तों ने इसकी स्थापना की है और एस्ट्रोनर्स ने केवल दो साल में काफी विकास किया है। चार लोगों की एक छोटी टीम से शुरू होकर, उन्होंने 28 सदस्यों की टीम तैयार की है। एस्ट्रोनर्स का एस्ट्रो पर्सटन हिल, एस्ट्रोमलीन, उत्तराखंड में तीन वेधशालाओं का संचालन करता है। उन्होंने हजारों स्टारगेजिंग सत्र सफलतापूर्वक आयोजित किए हैं, जिनमें अनगिनत व्यक्तियों को पृथ्वी से परे देखने और ब्रह्मांड के आश्चर्यों की खोज करने के लिए प्रेरित किया है।

Our Achievements

- Working with 100+ schools
- Inspired 50k+ students
- Designed 80+ Astropathshala STEAM LABS
- Conducted 250+ Astropicnics



Uttarakhand's First Student-Led Near-Space Satellite Mission

Students launched a satellite payload to near space using a high-altitude helium balloon.

ISRO Tutor Certificate

Recognised Space Tutor by ISRO.



Hindustan Achievers award

Hindustan Achievers Award 2024 in Education excellence



Tech Fest at IIT Delhi

A workshop in Rocketry & stargazing eve at IIT Delhi.



India's 1st Inter School Hydro Rocketry Competition

Organized at St.Joseph's Nainital.



Organizer of NASA Hackathon

Successfully Conducting NASA Hackathons for 3+ Years



Certificate of Appreciation From Uttarkhand Government

Conducted a workshop on Rashtriya Avishkar Abhiyan with Samagra Shiksha Bhimtal.



Largest Public Observation of Saturn

More than 2000 students & parents observed the Saturn at All Saints' College Nainital.



World's largest GSLV Mk-III replica

A 30-ft replica of GSLV Mk-III, designed by Astropathshala at St. Joseph's College, Nainital.











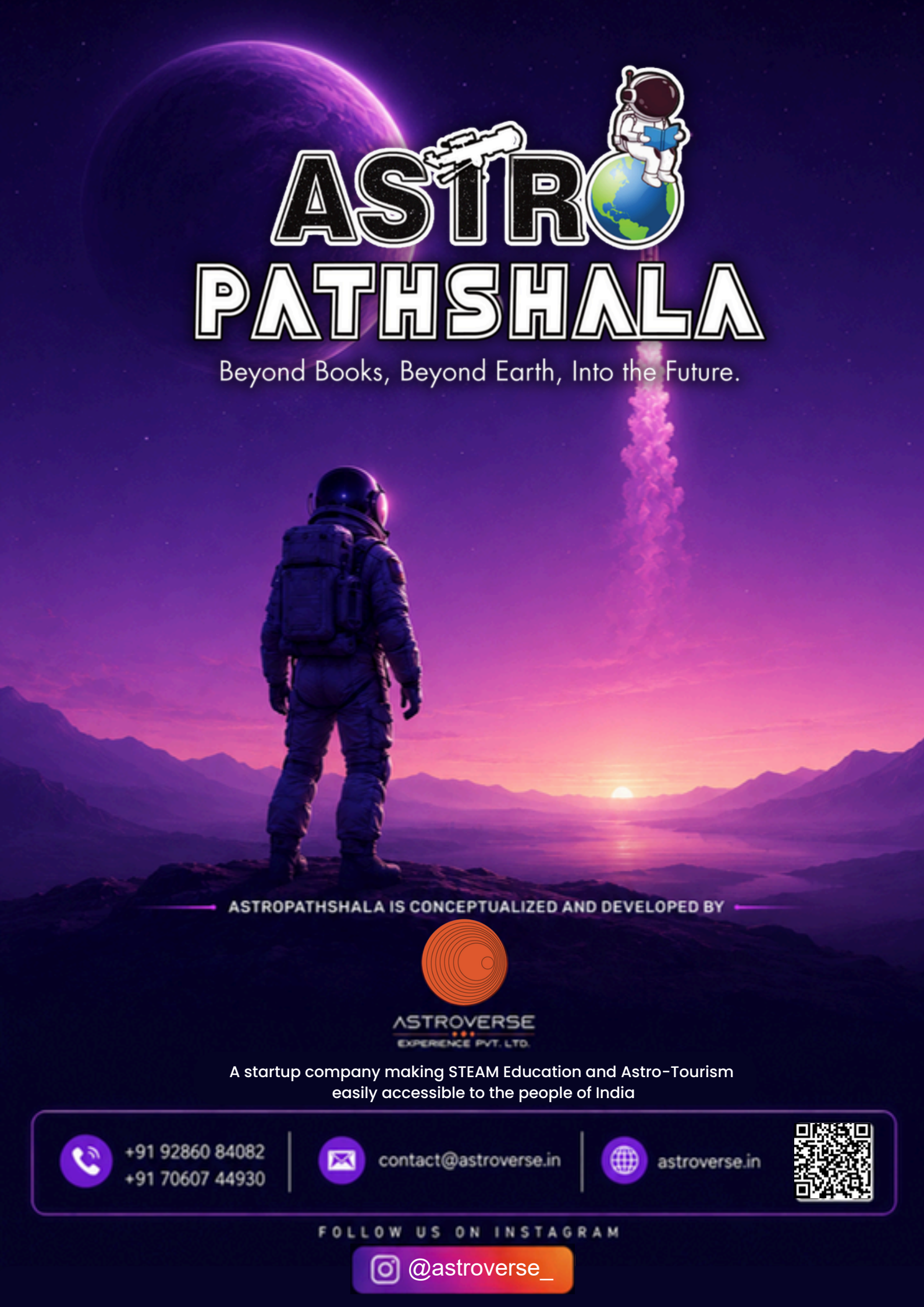

Provided Our Educational Experience to Following Institutes

- IIT Delhi
- DTU
- GBPUAT
- IIIT Delhi
- Graphic Era
- BIAS
- IIM Kashipur
- St. Joseph's School
- All Saints' College
- St. Mary's School
- The Doon School Dehradun
- Inspiration Sr. Sec. School
- Sai Public School
- B.L.M. Academy
- Dikshant International School
- Parvati Prema Jagati School
- Cynthia School
- G D Goenka Public School
- Delhi Public School
- Amenity Public School
- Sarv Sanskriti School
- Him Jyoti School
- Samar Study Hall School
- YS Public School
- R.A.N Public School
- Ecole Globale International Girls School
- Blooming Dale School
- Ek Onkar Global Academy
- La Matina School
- Government PG College Dharmshala
- Little Angels School
- Allenhouse Public school
- The Heritage Sr. Sec. School
- Columbus Public School
- Aryaman Vikram Birla Institute Of Learning
- St. Lawrence Sr. Sec. School, Haldwani
- K.V.M. Public School, Haldwani
- Scholars Academy school
- Golden Gate Global School
- Alakshya Public School
- Bright Start International Academy
- PN Foundation School

And Many More



Working with 80+Team mates


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ASTROPATHSHALA IS CONCEPTUALIZED AND DEVELOPED BY
ASTROVERSE
EXPERIENCE PVT. LTD.
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