



BHARAT & Its SCIENTIFIC GLORY

Chapter-1

Celebrating India's Scientific Heritage and Vision for
Viksit Bharat 2047.



27 JAN 2025 TO 12 APRIL 2025



Janki Bhawan, Kavi Nagar,
Ramlila Ground, Ghaziabad



Overview

“Bharat and Its Scientific Glory” was a national-level competition designed to rediscover and highlight the scientific excellence embedded in India’s ancient knowledge systems (IKS). Anchored in the vision of Viksit Bharat 2047, a forward-looking initiative by Hon’ble Prime Minister Shri Narendra Modi, the event aimed to awaken a sense of pride and critical inquiry in India’s youth regarding their rich scientific legacy. The competition served not only as an academic challenge but also as a cultural reawakening rooted in the country’s intellectual past.

This initiative was organized by Mr Vineet Vats Tyagi through Youth Unity Foundation in collaboration with IKS Department at IIT Kanpur, Bharat and Helping Soul Foundation.

Reason Behind the Initiative

The Bharat and Its Scientific Glory competition emerged from a growing recognition that India's vast and sophisticated scientific traditions have long been overshadowed or misrepresented. Generations of Indians have been educated within frameworks that often emphasize Western scientific narratives, leaving little space to explore India's own intellectual and empirical contributions.



Indians have long felt inferior for not knowing the scientific depth of their own heritage. It's time we rediscover it, not with doubt, but with pride and purpose.



Vineet Vats Tyagi

Organiser, Bharat and Its Scientific Glory
National Office Incharge, Youth Wing, BJP

This initiative was conceived as a response to that gap; a call to the youth of India to reclaim their civilizational confidence by engaging directly with their own knowledge systems. It aimed to correct the misconception that India's traditional sciences are purely mythological or spiritual, instead highlighting their foundational role in fields such as medicine, astronomy, mathematics, logic, metallurgy, and environmental science.

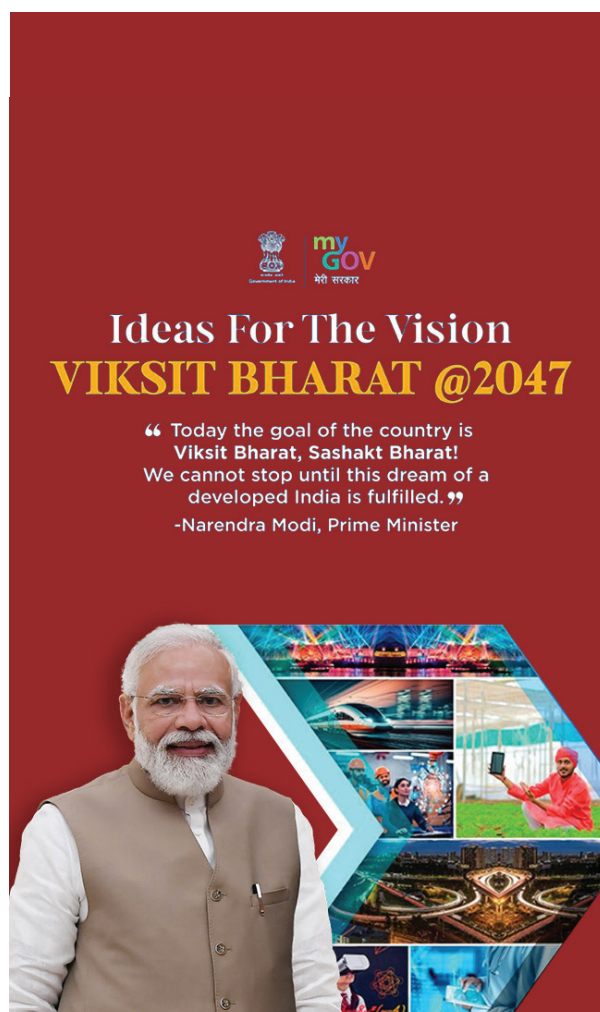
As a student in the seventh standard, Vineet Vats Tyagi came across a question in his General Knowledge book: "Who discovered India?" The question left him shocked. The very notion that someone had discovered India planted a troubling thought in his young mind. What were they doing before being "discovered"? This idea sparked an uncomfortable feeling within him, an inferiority complex, that there existed a race superior to them, capable of "discovering" their existence. That pain remained embedded in his heart. This question became the seed of a much larger vision to create a platform where young minds could reconnect with their heritage, view India not through borrowed perspectives, but through the brilliance of its own civilizational lens, and understand the profound contributions it has made to global knowledge, science, and culture.

The competition encouraged students to view their heritage not as relics of the past, but as a living body of knowledge that can inform and enrich India's future scientifically, culturally, and intellectually.

Objectives of the Competition

The core objectives of the competition were as follows:

01. To decolonise scientific discourse and restore Indian Knowledge Systems (IKS) to their global significance.
02. To inspire youth to embrace and take pride in India's intellectual and scientific legacy.
03. To bridge the gap between modern education and India's traditional sciences.
04. To foster research-oriented thinking through the study of Indian scientific traditions.
05. To support the Viksit Bharat vision by integrating IKS into modern learning and innovation.

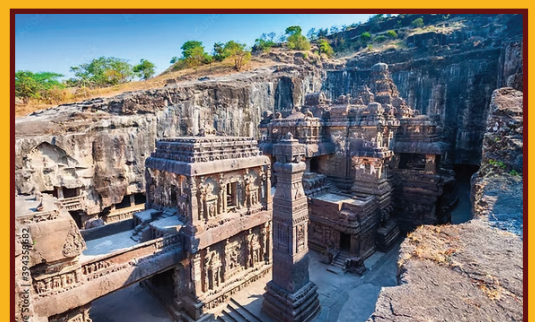
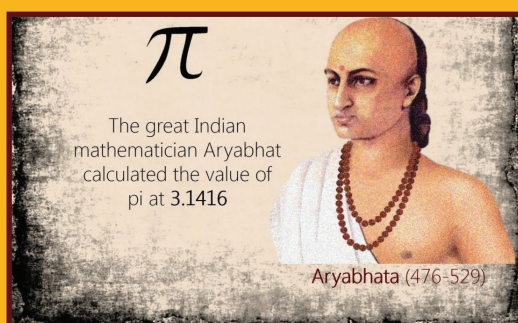
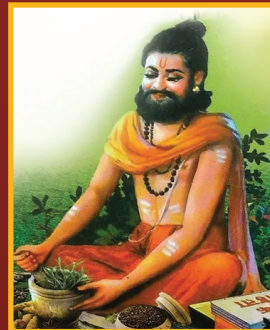


Launched on, 27th January

Young minds aged 16 to 25 were invited to form teams and present their ideas through well-crafted presentations, sharing their knowledge and insights as part of Bharat & Its Scientific Glory.

SUGGESTIVE THEMES:

- Ayurveda
- Ganita (Mathematics)
- Pramāṇa Vijñāna (Cognitive Sciences and Logic)
- Khagola Vijñāna (Astronomy)
- Rasa Śāstra and Dhātu Vijñāna (Chemistry & Metallurgy)
- Vāstukalā and Śilpaśāstra (Architecture & Sculpture)
- Yantra Vidyā (Mechanical Sciences)
- Kṛṣi Vijñāna (Agriculture)
- Yuddha Vidyā (Military Sciences)
- Paryāvaraṇa Śāstra (Environmental Knowledge)



Outreach & Engagement

18

Institutions were visited by Mr. Vineet Vats Tyagi to engage directly with students, faculty, and leadership, building awareness and interest.

50

Institutions were covered through on-ground outreach, including visits, material distribution, and interactive sessions.

500+

Institutions were reached through a strong digital campaign across social media and formal communications sent to schools, colleges, and universities, highlighting the competition's relevance and its alignment with Indian Knowledge Systems (IKS).

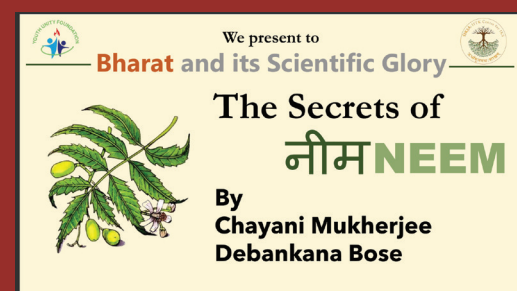
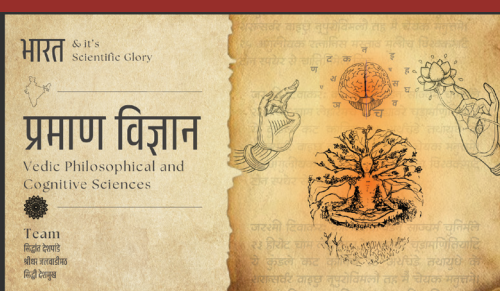
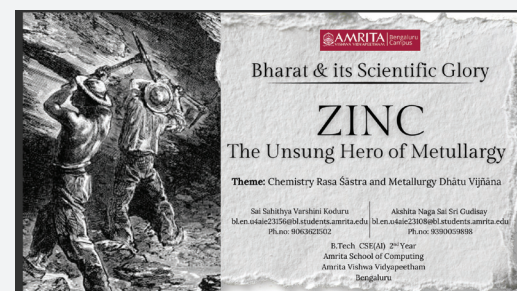
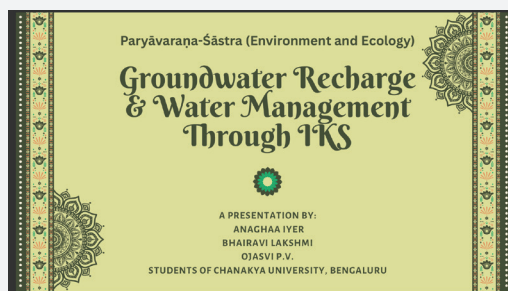
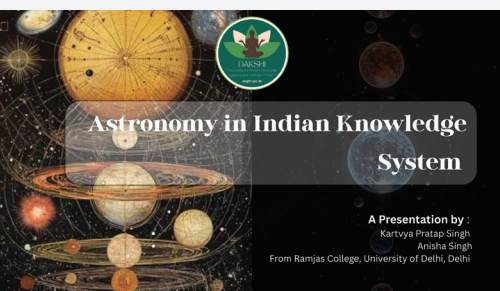
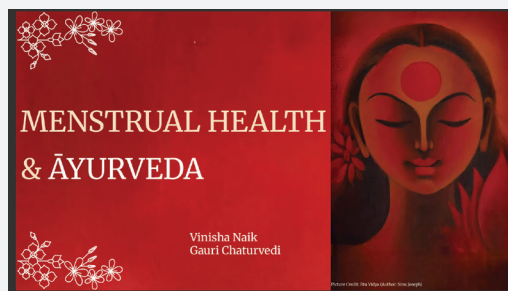
- Faculty and academic coordinators were briefed on the structure and educational value of the initiative.
- Student-led peer outreach was encouraged to build organic awareness and participation.
- The strategy aligned with the vision of Viksit Bharat, highlighting its cultural and academic significance.



Preliminary

Submissions & Evaluation

3rd April



Final Round 12th April

Out of 30 teams,
27 arrived

• 12 States represented



With over **500** participants, the event marked a significant engagement.

Panel Members



Dr. Mahesh K
Assistant Professor, COE for
IKS, IIT Kharagpur



Prof Ganti S. Murthy
National Coordinator, IKS
Division, MoE



Shri Amritanshu Pandey
CEO, Brhat



Dr. Srinivas Jammalamadaka
Director, IKS Research, Brhat



Dr Pankaj Saxena
Co-founder, Brhat



Dr Arnab Bhattacharya
ŚIKṢĀ Centre for IKS, IIT
Kanpur



Switi Gupta
Founding member,
GI4QC



Kavita Krishna Meegama
Director, University
Relations, Brhat



Shri Sushant Bharti
Conservation Architect, IKS
Faculty & Author



Shri Raghava Krishna
Founder, Brhat

Bharatanatyam

A Bharatanatyam performance by **Mrs. Devikaa Rajaraman**, a traditional Indian classical dance, was included to showcase how Indian Knowledge Systems beautifully integrate art, science, and philosophy. Rooted in the Nāṭyaśāstra, it reflects India's rich cultural and intellectual legacy.



Dignitaries' Addresses



Shri Tejasvi Surya

Member of Parliament, South Bengaluru
National President, Bharatiya Janata Yuva Morcha



Shri Raghava Krishna

Founder, Brhat



Prof Ganti S. Murthy

National Coordinator, IKS Division,
MoE



Shri Mayank Goel

President, Ghaziabad
Mahanagar, BJP



Shri Vineet Vats Tyagi

Organiser, Bharat and Its Scientific Glory
National Office Incharge, Youth Wing, BJP

Winners of the Competition

The judging panel identified three outstanding teams whose presentations demonstrated exceptional scholarly depth, originality, and clarity of thought. In addition to the top three ranks, the competition also recognized the efforts of teams that secured positions from 4th to 20th place, awarding them with monetary prizes as a token of encouragement.

The 1st prize of ₹1,00,000 was awarded to Saurabh Rajendra More (MIT World Peace University, Pune) and Saurabh Rajendra Patil (Deccan College Post-Graduate and Research Institute, Pune) for their brilliant research and presentation outlining 'The Sāṅkhyan Model of the Universe.'



The 2nd prize of ₹51,000 was awarded to Siddhi Avinash Deshmukh (Maharaja Sayajirao University of Baroda), Sridhar Rajashekhar and Siddhant Sanjay Deshpande (Symbiosis Institute of Design) for the perfect blend of rigor in research, application-based approach and innovative style of presenting as a team in their chosen topic: 'Pramāṇa Vijñāna – Vedic Philosophical and Cognitive Sciences.'



The 3rd prize of ₹31,000 was awarded to Mudit Vasishth and Sanya Vats (University of Delhi) for their research in the first principles and applications of Bhārata's 'Military Science (Yuddha Vidyā),' as also their unique efforts in generating AI-based comic strips to depict the same.



Additional Recognitions

The 4th and 5th prizes of ₹10,000 each were awarded to S. Sai Roopini and R Sanjana (Sri Venkateshwara College of Architecture, Hyderabad) for their presentation highlighting how temples are abodes of the deepest of philosophy in, 'Vāstukalā – The Journey to Mokṣa through Temples and the Panchabhūtas' and Debankana Bose and Chayani Mukherjee (Haldia Institute of Technology, Kolkata) for their research in the curative benefits of the neem plant especially with respect to melanoma, in 'The Secrets of Neem.'

The organizers ensured that the efforts of each of the shortlisted candidates was honored. Prize winners from the 4th to 10th positions were awarded ₹10,000 each and those at 11th-20th positions with ₹5,000 each. Additionally, all participants were given certificates of participation for their valuable contributions.



All winners were felicitated by Shri Tejasvi Surya, who praised their innovative approaches to interpreting India's ancient scientific heritage and encouraged them to continue exploring the profound depths of Indian Knowledge Systems.

MATHEMATICS

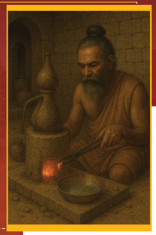

"From a bunch of pure lotuses $\frac{1}{3}$, $\frac{1}{5}$, and $\frac{1}{6}$ parts were used for the worship of Shiv, Vishnu and Durga respectively; $\frac{1}{6}$ was used to worship Parvati and the 6 that were left, were used for the worship of the guru's feet. Now, Leelavati, quickly tell me how many lotus flowers were there in the bunch?"

— (Bhaskaracharya's Leelavati)

Are you able to do?

BHARAT & Its SCIENTIFIC GLORY

METALLURGY

ELECTRICAL SCIENCE

अनेन जलभङ्गोऽस्ति प्राणो दानेषु वायुषु।
एवं शतानां कुमानां संयोगकार्यकृत्स्नतः॥

वायुबन्धकवस्त्रेण निबद्धो यमस्तके।
उदानः स्वल्पवृत्ते विभक्त्याशयानकम्॥

— (अमरस्य संहिता - 1, Shilp Shastra)
1200 BCE

He says that if we use the power of 100 earthen pots on water, then water will change its form into life-giving oxygen and floating hydrogen. (Electrolysis)

If hydrogen is contained in an air tight cloth, it can be used in aerodynamics, i.e. it will fly in air. (Hydrogen Balloon)

BHARAT & Its SCIENTIFIC GLORY

ELECTRICAL SCIENCE








BOTANY

पत्राणि तु वातात् पराञ्जकानि अभिगृह्णन्ति।
— (Vrikshang Sutradhyay)

In this, vaat means CO_2 , atap means sunlight and ranjak means chlorophyll. This book clarifies that plants make their own food using carbon dioxide + sun + chlorophyll. (Photosynthesis)

BHARAT & Its SCIENTIFIC GLORY

BOTANY

BHARAT & Its SCIENTIFIC GLORY

भारतीय ज्ञान परंपरा प्रदर्शनी

यतोऽभ्युदयनिःश्रेयससिद्धिः स धर्मः। — (कणाद संहिता - 1)

महर्षि कणाद

"THE MEDIUM THROUGH WHICH ONE ACQUIRES ALL KINDS OF DEVELOPMENT—FROM THE PHYSICAL POINT OF VIEW AND THE PHILOSOPHICAL POINT OF VIEW, IS CALLED **Dharma**."

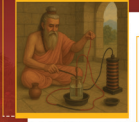

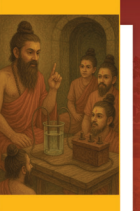
MARINE SCIENCE

about 300 boatmen were needed to row them. About 3000-4000 gunny bags could be loaded in each ship. They had many small rooms for people to live in. These rooms had arrangements for all kinds of comfort. When the bottom or the base started to get spoiled, a new layer would be added on. Sometimes, a boat would have even six layers, one on top of another.

Nicolo Conti came to India in the 15th century. He wrote, "The Indian ships are much bigger than our ships. Their bases are made of three boards in such a way that they can face formidable storms. Some ships are made in such a way that if one part becomes useless, the rest of the parts can do the work. (Ship Building)

BHARAT & Its SCIENTIFIC GLORY

ELECTRICAL SCIENCE

ASTRONOMY




आकृष्टिश्चिह्नं मही तथा यत् स्वस्थं
गुरु स्वाभिमुखं स्थित्वा।
आकृष्यते तत्पततीति भाति
समेसमन्तात् क्व पतन्वियं खे॥

— (Siddhanta Shiromani Golasadhyay-Bhuvankosh -6)

This means that the earth has the power of attraction. So, it attracts heavy things towards itself and because of the attraction, they fall to the ground. But, when an equal power or strength pulls from all directions in the sky, then how can a thing fall? This means that the planets stay in the sky without any support because the gravitational powers of the various planets maintain the balance. (Gravitational Field)

BHARAT & Its SCIENTIFIC GLORY

ASTRONOMY




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Glimpses



Reflections and Way Forward

Bharat and Its Scientific Glory was not merely a competition, but a movement an intellectual and cultural invocation of India's living knowledge systems. It provided a national platform for the youth to rediscover, reinterpret, and reignite the scientific brilliance of Bharat's civilizational legacy.

As envisioned by Mr. Vineet Vats Tyagi, the initiative challenged the prevailing notion that innovation must be borrowed from the West. Instead, it reaffirmed that India's ancient frameworks rooted in Ayurveda, astronomy, logic, and more hold immense relevance in addressing contemporary challenges. His belief that "we are not a civilization that needs to borrow intellect" resonated throughout the event.

The competition aligned meaningfully with the vision of Viksit Bharat 2047, articulated by Hon'ble Prime Minister Shri Narendra Modi, which envisions a self-reliant, developed, and intellectually sovereign India. By grounding innovation in indigenous systems, the event bridged the gap between heritage and modernity, between knowledge and nation-building.

The Youth Unity Foundation remains committed to curating meaningful, thought-provoking experiences that inspire students to look inward for knowledge, identity, and innovation. With this initiative, we hoped to spark reflection, curiosity, and a renewed sense of pride contributing in our own way to the national vision of a culturally anchored, self-reliant Viksit Bharat by 2047.



Envisioning the Path Ahead

1. Nationwide Seminars Led by Student Ambassadors

Building on the momentum generated by Bharat and Its Scientific Glory, a series of seminars will be organized across the country to further disseminate the knowledge and insights explored during the competition. Selected participants will be designated as Brand Ambassadors of the initiative, empowering them to lead local outreach, share learnings, and inspire peer communities to engage with Indian Knowledge Systems (IKS) as a vital part of India's scientific identity.

2. Research Programme on the Application of Indian Scientific Knowledge to solve the present and future problems of the world in different domains.

A structured research programme will be developed to explore the application of India's traditional scientific knowledge to address contemporary and emerging challenges. This initiative will involve collaboration with domain experts, scholars, and research institutions to ensure academic rigor and real-world relevance. The objective is to bridge ancient wisdom with modern innovation, creating sustainable and culturally rooted solutions for the future.



YOUTH UNITY FOUNDATION



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KNOWLEDGE PARTNERS

