

STEMcult



Overview

India's rich cultural heritage and rapid technological advancement together create a powerful platform for innovation and expression. **STEMcult** is a unique competition that blends culture with STEM (Science, Technology, Engineering, and Mathematics), encouraging students to creatively express scientific and technological concepts through performing arts.

Participants will select one of the given themes and present a cultural performance that demonstrates STEM concepts aligned with that theme. Performances may include **dance, theatrical acts, or digitally/technologically integrated performances**, enabling students to merge creativity with scientific understanding.

The competition consists of multiple stages, each with distinct objectives

- 1. Ideation Round:** Teams submit an abstract describing their chosen theme, performance concept, STEM integration, and the message they intend to convey. Please note this is a **non – Elimination round**, but points gained in this will be considered in Zonal results.
- 2. Zonal Round:** A virtual round where participants will submit their video (maximum 8 minutes) showcasing their complete performance.
- 3. Finale:** The top 20% teams from each zone qualify for the Grand Finale, where they perform live before the judging panel.

Themes of Competition

Science in Our Tradition



Problem Statement

India's traditions, architecture, art forms, festivals, and daily practices often have deep scientific reasoning embedded within them. However, many students are unaware of the scientific principles behind these cultural practices. In this theme, participants must design a cultural performance that highlights the scientific concepts hidden within Indian traditions and heritage

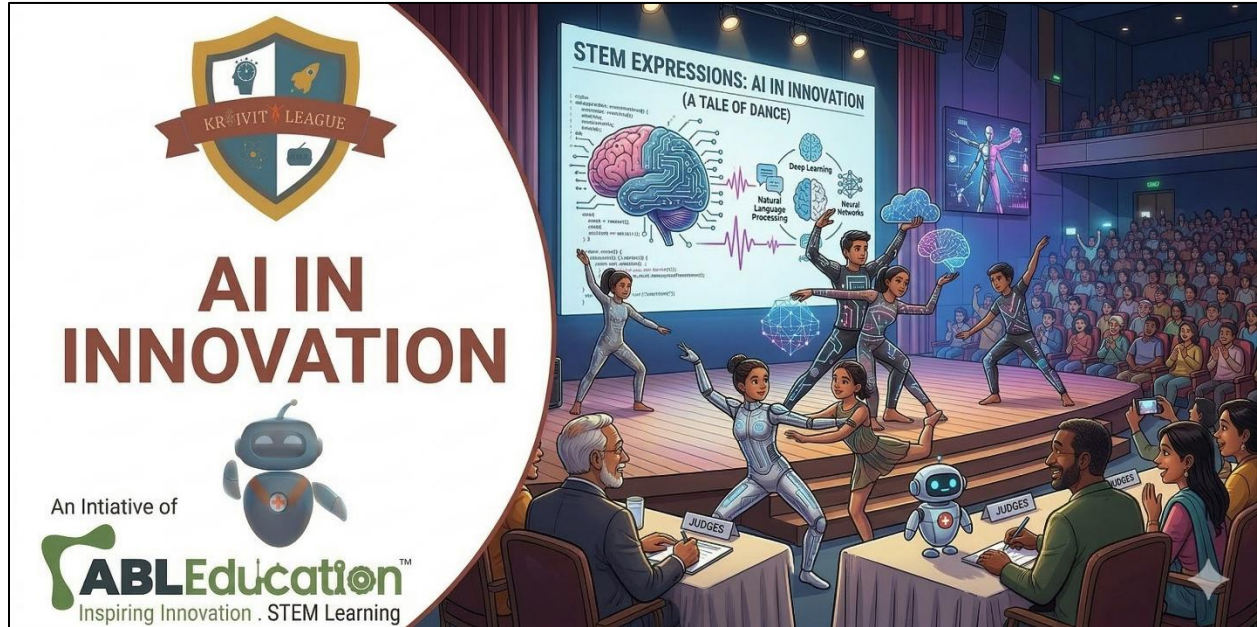
Objective

To help students explore and understand the scientific logic rooted in Indian traditions and present it creatively through cultural expression.

Key Features to Address

1. Clearly identify a tradition and explain the scientific concept behind it.
2. Integrate STEM explanation meaningfully into the performance.
3. Ensure the cultural presentation remains engaging, informative, and accurate.

AI in Innovation



Problem Statement

Artificial Intelligence is transforming industries, education, healthcare, and daily life. While AI is shaping the future, there is a need to understand its applications, benefits, and ethical considerations. In this theme, participants must create a cultural performance that showcases how AI drives innovation and impacts society.

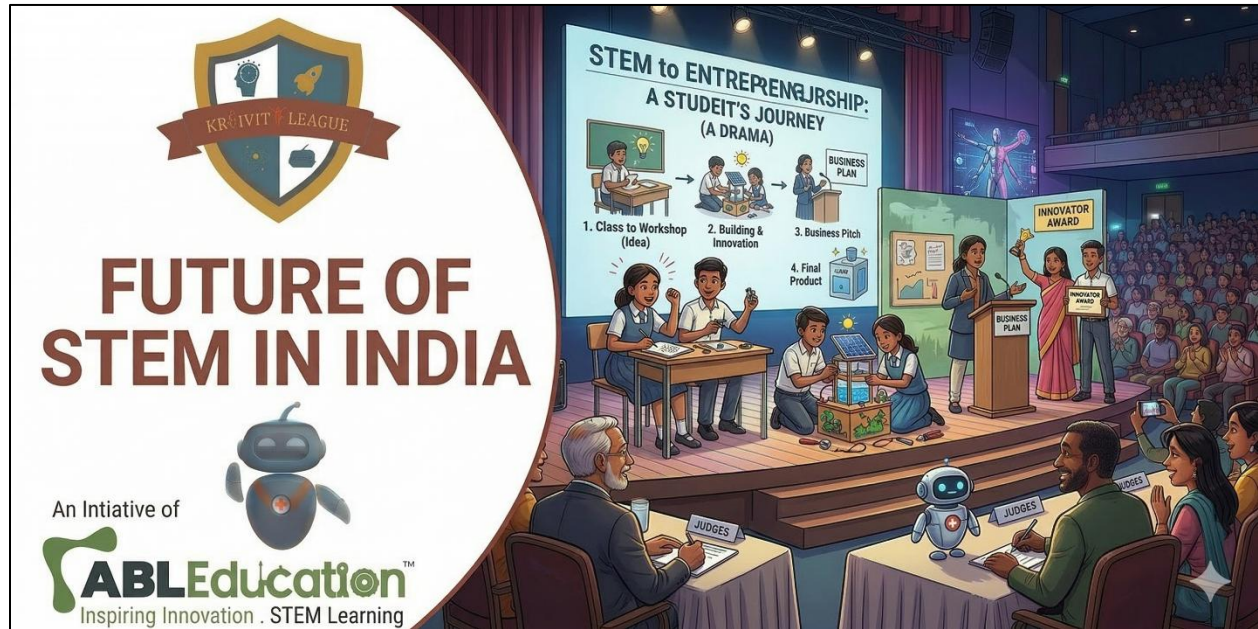
Objective

To encourage students to creatively explore the role of Artificial Intelligence in innovation and communicate its significance through performance art.

Key Features to Address

1. Demonstrate real-world applications of AI.
2. Present both opportunities and challenges of AI in society.
3. Integrate digital or technological elements where relevant.

Future of STEM in India



Problem Statement

As India progresses toward becoming a global leader in technology and innovation, STEM education and advancements will play a crucial role. In this theme, participants must present a cultural performance envisioning how STEM will shape India's future.

Objective

To inspire students to imagine and express how STEM can contribute to national development and global leadership.

Key Features to Address

1. Present a visionary outlook on STEM-driven India.
2. Highlight innovation, sustainability, and technological growth.
3. Deliver a strong, inspiring message aligned with national development.

Rules and Regulations

- Students from Grades 6 to 12 are eligible to participate.
- Each team must consist of a minimum of 3 and a maximum of 12 students.
- Teams must select only one theme for their performance.
- Performances may include dance, theatrical acts, or digital/technology-integrated performances.
- The maximum duration of the performance video for the Zonal Round is 8 minutes.
- The abstract submission in the first round is mandatory.
- All content must be original and created specifically for the competition.
- Performances must not contain any offensive or inappropriate content.
- The top 20% teams from each zone will qualify for the Finale.
- Judges' decisions will be final and binding.

Guidelines

To ensure a smooth evaluation process, all participants must follow these guidelines:

Abstract Submission:

- Clearly explain the theme selected.
- Describe the concept, storyline, and STEM elements included.
- Mention the intended message or impact of the performance.

Video Submission (Zonal Round):

- Maximum duration: 8 minutes.
- Ensure clear audio and video quality.
- Introduce the team briefly at the beginning.

Performance Structure:

- Maintain a balance between cultural expression and STEM explanation.
- Ensure smooth coordination among team members.
- Use digital or technological elements meaningfully if included.

File Format:

- Submit abstract in PDF format.
- Submit video in MP4 format.
- Follow the prescribed naming convention.

Evaluation Criteria

All submissions will be evaluated based on the following criteria, with a total score of 100 points:

- 1. Creativity and Cultural Integration (25 points):**
 - Originality of the idea.
 - Uniqueness and creative approach to the problem statement.
- 2. Inculcating STEM and Computational Thinking Skills (25 points):**
 - Accuracy and depth of scientific or technological explanation.
- 3. Impact & Message Delivery (25 points):**
 - Effectiveness in communicating the intended idea or social relevance.
 - Professionalism in visual and verbal presentation.
- 4. Presentation & Coordination (25 points):**
 - Performance quality, teamwork, stage presence, and overall execution.

