



Faculty of Science  
Veer Bahadur Singh Purvanchal  
University, Jaunpur



*Organises*

## National Science Day Celebration 28 February 2025

**Theme**

**"Empowering Indian Youth for Global Leadership  
in Science & Innovation for Viksit Bharat"**



### About Program

National Science Day 2025 in India will be celebrated on February 28th, commemorating the discovery of the Raman Effect by Indian physicist Sir C.V. Raman in 1928. This year's theme is **"Empowering Indian Youth for Global**

**Leadership in Science & Innovation for Viksit Bharat"**, highlighting India's commitment to fostering youth potential in science and innovation to create global leaders.

This year science day aims to promote scientific thinking, innovation, and technological advancements across India, recognizing the importance of science and technology in shaping the nation's future. Various events and activities, such as science exhibitions, seminars, debates, quizzes, and lectures, will be organized by Faculty of Science, VBS Purvanchal University to explore the young minds of students.



**Patron**  
**Prof. Vandana Singh**  
**Hon'ble Vice-Chancellor**

## Organizing Committee Members

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Dr. S. P. Tiwari	Head, Department of Microbiology
Dr. Vivek Kumar Pandey	Head, Department of Environmental Science
Dr. Rishi Srivastava	Department of Microbiology
Dr. Awdhesh Kumar	Faculty of Science
Dr. Maruti Prasad Singh	Faculty of Science
Dr. Dinesh Kumar	Faculty of Science
Dr. Rajesh Kumar	Faculty of Science
Dr. Vijay Shanker Pandey	Department of Chemistry, Rajju Bhaiya Institute
Ms. Ishani Bharti	Department of Microbiology
Dr. Sanjeev Kumar Maurya	Department of Biochemistry
Dr. Sipahsee Lal Patel	Department of Biotechnology
Dr. Deepak Kumar	Department of Biotechnology
Dr. Vivek Singh	Faculty of Science
Dr. Shweta Sonam	Department of Biotechnology
Dr. Abhay Kumar Gupta	Department of Biotechnology
Dr. Pratima Srivastava	Department of Microbiology

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## Advisory Committee

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Prof. Ajay Dwivedi	Dean, Student Welfare
Prof. Saurabh Pal	Dean, Faculty of Eng. and Technology
Prof. Ashok Kumar Srivastava	Head, Department of Chemistry, UNSIET
Prof. Ram Narain	Department of Biotechnology
Prof. Pradeep Kumar	Department of Biotechnology
Prof. Pramod Kumar Yadawa	Director & Head, Department of Physics, Rajju Bhaiya Institute
Prof. Santosh Kumar	Head, Department of Physics, UNSIET
Prof. Raj Kumar	Head, Department of Mathematics, UNSIET
Prof. Mithilesh Kumar Singh	Head, Department of Mathematics, Rajju Bhaiya Institute
Dr. Pramod Kumar	Head, Department of Chemistry, Rajju Bhaiya Institute
Dr. Neeraj Awasthi	Head, Department of Earth and Planetary Science, Rajju Bhaiya Institute

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## Who Can Attend?

- UG/PG/Ph.D. Students

## Registration Details

- **Online Registration:** <https://forms.gle/LEX9oiwVHfNxJk7h8>
- **Last Date of Registration:** 24<sup>th</sup> February 2025
- **Registration Fee:** Free (Pre-registration is mandatory)

## Highlights of the Celebration

- **Inaugural Ceremony**
  - Presidential address by the Honorable **Vice-Chancellor**, VBS Purvanchal University
  - Keynote Speech by **invited speaker**
- **Poster and Model Making Competition**
  - Demonstrations showcasing the latest advancements in science
- **Rangoli Competition**
  - Topic: *The Role of Scientific Research in Sustainable Development*
  - Featuring experts from various fields of science
- **Science Quiz Competition**
  - For students and participants, with exciting prizes!
- **Science Fiction Story Writing Competition**
  - Creative writing by participating students.
- **Award Ceremony**

## Schedule & Venue

Day	Time	Name of Event	Venue	Contact
<b>27<sup>th</sup> Feb 2025</b>	<b>12:00 Noon Onwards</b>	Science Fiction Story Writing	Biochemistry Lecture Hall, Faculty of Science	Dr. Dinesh Kumar 9721667938
	<b>01:00 PM Onwards</b>	Quiz competition	Faculty Building	Dr Vivek Singh 7982659658
	<b>02:00 PM Onwards</b>	Rangoli Competition	Faculty Building	Dr. Shweta Sonam 8299819654
<b>28<sup>th</sup> Feb 2025</b>	<b>10:00 AM Onwards</b>	Inaugural & Invited Lecture Session	Aryabhata Auditorium Rajju Bhaiya Institute	Dr. Sipahee Lal Patel 9415871238
	<b>10:00 AM Onwards</b>	Poster & Model	Faculty Building	

## Guidelines for Poster/ Model Competition

### 1. Who Can Participate?

- The quiz competition is open to all students, typically organized by **department or college**.
- Department or colleges can propose their **team**

### 2. Theme:

- The theme should be related to **Science and Technology**. Example themes:
  - "Future Technology in Healthcare, Agriculture and Environment"
  - "Innovations in Science for a Sustainable Future"
  - "The Role of Science in Shaping Modern Society"

- "Exploring the Wonders of Space"
- "Science and Technology for National Development"
- "Climate Change Solutions"

### 3. Size and Format:

- Posters should be 129.7 cm x 82 cm or 42 cm x 59.4 cm.
- The format can be either **hand-drawn or digital on flex**.
- **Physical posters** should be submitted in the specified size and mounted on sturdy material like cardboard or foam board.

### 4. Content and Design:

- The poster should focus on **scientific concepts, discoveries, or innovations**.
- Must include a **title or caption** relevant to the theme.
- **Originality** is key; all content (images, graphs, text) should be the participant's own work.
- The poster should be **visually appealing**, with clear, legible text and effective use of color, images, and layout.
- Avoid clutter; use **minimal text** and let the visuals communicate the message.
- Ensure that the poster aligns with **National Science Day's goal** of promoting science.

### 5. Text/Content:

- The text should be **concise**, explaining the concept or message in an easy-to-understand manner.
- Include necessary **credits** if using images or sources that require attribution.
- Font size should be **large enough to be readable** from a distance.

### 6. Submission Deadline:

- Submit posters by the specified date and time 28 February 2025 , 09:00 am
- Physical submissions should be delivered to the event location by the specified time.

## 7. Judging Criteria:

- **Relevance to the theme:** Does the poster effectively represent the theme of National Science Day?
- **Creativity and originality:** How innovative and creative is the design?
- **Clarity of message:** Is the message clearly conveyed?
- **Design and layout:** Is the poster aesthetically appealing and well-organized?
- **Interaction** with Jury members

## 8. Prizes and Certificates:

- **Top Winners:** Award prizes for the first, second, and third place winners
- **E-Certificates of Participation** for all students who participated in the competition, to encourage involvement and appreciation.

# Guidelines for Science Fiction Story Writing

## 1. Theme:

- The theme should inspire creativity while maintaining a connection to scientific ideas or concepts. Example themes:
  - "The Future of Space Exploration"
  - "Artificial Intelligence and Humanity's Future"
  - "Environmental Change and Technological Solutions"
  - "Time Travel Paradoxes"
  - "Life on Other Planets"
  - "Robots and Human Relationships"
  - "Sustainable Future through Science and Innovation"

## 2. Story Length:

- **Word Count:** The story should be between **300 to 500 words**.
- Ensure the story is concise, well-developed, and doesn't exceed the upper limit.

## 3. Originality and Creativity:

- The story must be **original** and written by the participant (no plagiarism).
- While drawing inspiration from existing science fiction works is allowed, the story should offer a **fresh perspective** or **unique twist** on the theme.
- Encourage **creative thinking**: Participants should focus on speculative scientific ideas or concepts and explore them imaginatively.

## 4. Scientific Relevance:

- While creativity is key, the story should still have a **basis in scientific principles**.
- Include plausible or theoretically possible scientific concepts or technologies (even if they are speculative or futuristic).
- Use **real science**, even if the story is fictional, and make sure any fantastical elements are logically explained or grounded in real-world science.

## 5. Plot and Structure:

- **Introduction:** Set the scene, introduce the characters, and establish the world of the story (future world, alternate reality, etc.).
- **Conflict:** Develop a central conflict or problem rooted in scientific discovery, exploration, or ethical dilemmas (e.g., AI rebellion, alien encounter, environmental collapse).
- **Climax:** The pivotal moment where the tension reaches its peak, often leading to the resolution of the conflict.
- **Resolution:** Conclude the story in a manner that ties up the scientific and narrative elements, offering a satisfying ending or thought-provoking twist.

## 6. Characters and Dialogue:

- **Well-developed characters:** Even though the story is set in a sci-fi world, characters should have depth and motivations.
- Dialogue should reflect the personalities of the characters and the context of the world they inhabit (e.g., futuristic tech talk or alien languages).
- **Diversity:** The characters can come from different backgrounds or even different species, adding richness to the narrative.

## 7. Style and Tone:

- The writing should be **clear, engaging, and imaginative.**
- While the tone can vary (e.g., serious, adventurous, humorous), it should match the story's content and theme.
- Avoid overly complex jargon; scientific terms should be explained or used in a way that doesn't overwhelm the reader.

## 8. Language:

- The story should be written in **proper Hindi / English**
- Grammar, punctuation, and spelling should be checked and polished before submission.
- The writing should flow smoothly, with a coherent structure and transitions.

## 9. Submission Guidelines:

- Stories must be **submitted in Hard copy (paper provided by organizer)**
- Include the participant's **name and affiliation, contact details**, and a **title for the story** on the cover page or header.
- **Spot writing on 27 February 2025 at Faculty of Science, VBS Purvanchal University campus, Jaunpur**
- No late submissions will be accepted.

## 10. Judging Criteria:

- **Creativity and originality:** How fresh and imaginative is the story?
- **Scientific plausibility:** Does the story incorporate real or speculative science in a believable manner?
- **Writing quality:** Is the story well-written, engaging, and clear?
- **Character development:** Are the characters well-rounded and integral to the plot?
- **Theme alignment:** Does the story effectively relate to the chosen theme of the competition?
- **All stories will be sole property right for VBS Purvanchal University, Jaunpur**

## 11. Prizes and Certificates:

- **Top Winners:** Award prizes for the first, second, and third place winners
- **E-Certificates of Participation** for all students who participated in the competition, to encourage involvement and appreciation.

## Guidelines for Quiz Competition

### 1. Who Can Participate?

- The quiz competition is open to all students, typically organized by **department or college.**
- Department or colleges can propose their **team**

### 2. Team Structure:

- **Team Size:** Each team will consist of **4-6 students.**
- Teams should be formed ahead of time, and each participant must be registered before the competition date.

### 3. Quiz Format:

The quiz competition can be divided into multiple rounds, each focusing on different areas:

#### a. Round 1 – Preliminary Round:

- Multiple-choice questions (MCQs) or short-answer questions based on general science.
- Each team will answer questions in a **set time** (e.g., 30 seconds per question).

- The top-scoring teams from this round will advance to the next stage.
- b. Round 2 – Rapid Fire Round:**
  - Quick-answer questions where teams must answer as many questions as possible in a short amount of time (e.g., 10 seconds).
  - Teams must answer without consulting each other.
- c. Round 4 – Visual Round:**
  - Show images or videos, and ask related questions (e.g., identify famous landmarks, scientists, inventions, etc.).
- d. Round 5 – Final Round (Tie-breaker):**
  - A series of challenging questions to determine the winner in case of a tie.
- 4. Types of Questions:**
  - **Multiple Choice Questions (MCQs):** Participants select the correct answer from a list of options.
  - **Short Answer Questions:** Teams write brief responses (e.g., name a famous historical event or inventor).
  - **Picture Identification:** Identifying famous people, places, or objects from images.
  - **Current science:** Questions related to current scientific, news, or global happenings.
- 6. Rules and Regulations:**
  - a. Answering:**
    - Only one team member can answer each question, and the team must designate the spokesperson for each round.
    - If a team answers incorrectly, other teams may have a chance to “steal” the question for additional points.
  - b. Time Limits:**
    - Each team is given **30 seconds to 1 minute** to answer a question, depending on its difficulty.
    - A timekeeper should be present to monitor and enforce time limits.
  - c. No Consultation:**
    - Teams are not allowed to confer or consult any external sources (e.g., smartphones, books, or other team members) during any round of the quiz.
  - d. Scoring System:**

- Assign **points for each correct answer** (e.g., 10 points for correct answers in the preliminary round, 20 for the final round).
- **Negative marking** may be introduced for incorrect answers, depending on the rules set (e.g., 50% points for a wrong answer).
- The **team with the highest score at the end of the quiz** wins.
- e. Disqualifications:**
  - Teams that violate the rules (e.g., cheating, exceeding time limits, or inappropriate behavior) may be disqualified from the competition.
- d. Prizes and Certificates:**
  - **Top Winners:** Award prizes for the first, second, and third place winners
  - **E-Certificates of Participation** for all students who participated in the competition, to encourage involvement and appreciation.

## **Guidelines for Rangoli Competition**

### **1. Who Can Participate?**

- The competition is open to all students in various categories, such as:
  - **Team Participation:** Teams of 4-6 students per team, depending on the available space and resources.

### **2. Theme:**

- The theme should be announced in advance and can focus on:
  - Space & Astronomy Theme Solar system with planets and orbits Astronaut and rocket launching Black hole or galaxy swirl
  - Inventions & Technology Theme A glowing light bulb (symbolizing ideas & inventions)A circuit board or AI brain Robotics and futuristic technology

- Biology & Nature Theme DNA double helix Microscope with cells or bacteria Evolution of life (Darwin's theory)
- Chemistry & Physics Theme Colorful chemical reactions in test tubes Atomic structure with electrons revolving around a nucleus Einstein's equation ( $E=mc^2$ ) with a creative background
- Environment & Sustainability Theme Renewable energy (solar panels, wind turbines) Earth with a tree inside a beaker (Science saving the planet) Water conservation symbols
- DNA & Genetics DNA Double Helix: A colorful spiral structure representing genetic code. Genetic Tree: A tree whose branches are DNA strands, symbolizing evolution. Chromosomes & Genes: Artistic representation of chromosomes inside a nucleus.
- Microbiology & Cells Microscope & Cells: A close-up of a cell being observed under a microscope. Petri Dish with Bacteria: Colorful bacterial colonies spreading. Virus & Immune System: White blood cells fighting a virus (artistic representation).
- Environmental Bioscience Tree of Life: A tree with roots forming a DNA strand. Ecosystem in a Petri Dish: A small world inside a dish, showing biodiversity. Human & Nature Connection: A hand holding the Earth with plants growing.
- A depiction of Jupiter, the Sun and the Moon in alignment, symbolizing the planetary positions that determine Mahakumbh's occurrence

### 3. Materials:

Participants should use **traditional/ecofriendly Rangoli colors** and materials like:

- **Colored powders** (Rangoli colors).
- **Flower petals.**
- **Rice flour, sand, or chalk powder.**
- **Other materials:** Seeds, beads, mirrors, or colored paper for embellishments.
- **No use of harmful or non-biodegradable materials** (such as plastic beads or glitter).

Participants may **bring their own materials**, but the use of **eco-friendly, safe materials** is encouraged.

### 4. Size and Space:

- **Design Area:** A specified area for each participant or team, typically a **2 ft x 2 ft** or **3 ft x 3 ft** space.
- Participants must stay within the assigned boundaries for their Rangoli design.
- Teams or individuals should make sure they work within the given space.

### 5. Design Guidelines:

- **Creativity and Originality:** Rangoli designs should be original. Reproducing designs from the internet or books will not be allowed.
- **Traditional vs. Modern:** While participants are encouraged to stick to traditional themes, they are free to experiment with modern or contemporary designs as long as they reflect creativity.
- **Complexity:** Designs should balance complexity and visual appeal. It's important to focus on neatness, symmetry, and clean lines, especially in intricate designs.
- **Color Harmony:** Use a combination of vibrant colors to enhance the aesthetic appeal, ensuring they blend well together.

### 6. Rules:

- **No external help:** Only the registered participants can work on their Rangoli designs. Teachers or external assistance is not allowed.
- **Use of materials:** Only the materials mentioned in the guidelines should be used. No artificial decorations, plastic, or harmful substances.
- **Safety:** Participants should avoid using sharp objects or items that could cause harm (e.g., knives, scissors).
- **Cleanliness:** Participants should maintain cleanliness and keep the work area neat. After the competition, they should clean up their space.

- **Boundary adherence:** Participants must complete their designs within the allotted space and should not encroach upon neighboring designs.
- **Theft or tampering:** Any form of cheating or tampering with other participants' designs will result in immediate disqualification.

#### 7. Judging Criteria:

- **Creativity and Originality:** How unique and creative is the design? Does it reflect the chosen theme?
- **Color Combination:** Effective use of color harmony and creativity in blending or contrasting colors.
- **Design Accuracy and Symmetry:** Neatness, precision, and overall symmetry of the Rangoli.
- **Adherence to Theme:** How well does the Rangoli represent the chosen theme?
- **Use of Materials:** Proper and artistic use of materials like colored powders, flowers, and other natural items.
- **Overall Aesthetic Appeal:** The beauty and visual appeal of the Rangoli as a whole.

#### 8. Prizes and Certificates:

- **Top Winners:** Award prizes for the first, second, and third place winners
- **E-Certificates of Participation** for all students who participated in the competition, to encourage involvement and appreciation.

**Dr. Manish Kumar Gupta**

**Organizing Secretary**

Head, Department of  
Biochemistry

**Prof. Rajesh Sharma**

**Convener**

Head Department of Biotechnology  
Dean Faculty of Science

**For any queries Contact**

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