



Article Writing Competition Report



SANRAKSHAN SOCIETY
Department of Sustainable Energy Engineering, IIT Kanpur

Executive Summary

The SANRAKSHAN Society successfully organized an Article Writing Competition for IIT Kanpur students focused on "The Future of Renewable Energy in India." The competition received 19 submissions from undergraduate and postgraduate students across various departments, demonstrating strong engagement with renewable energy and sustainability topics. Winners were selected based on a comprehensive evaluation matrix assessing technical content, clarity, and structure.

1. Competition Overview

1.1 Background

1.2 Competition Theme

Theme: The Future of Renewable Energy in India

Participants were invited to submit original, unpublished articles (1000-1200 words) exploring various aspects of renewable energy in India, including:

- The role of renewable energy in India's growth
- India's Energy Transition: Challenges and pathways of solutions
- The socio-economic impact of energy policies in India
- Breakthroughs in India's Clean Energy R&D: From Green Hydrogen to Carbon Capture
- Digitalization of India's Energy Sector: AI, IoT, and Smart Grids
- Balancing Growth with Sustainability: The Energy-Water-Food Nexus in India

1.3 Key Deadlines

Submission Deadline: October 8, 2025

Extended Deadline: October 19, 2025

Results Announcement: November 20, 2025

1.4 Eligibility and Submission Criteria

Eligibility:

- Open to all registered students at IIT Kanpur
- Both undergraduate (UG) and postgraduate (PG) students eligible
- Maximum of one entry per applicant
- Single authorship only (no co-authorship allowed)

Submission Requirements:

- **Word Count:** Maximum 1200 words
- **Format:** PDF (.pdf) with filename as "Name_RollNo.pdf"
- **Language:** English
- **Font:** Arial
- **Font Size:** Title - 12pt, Body - 10pt
- **Line Spacing:** 1.15
- **Originality:** All work must be original and previously unpublished.
- **References:** Provided as inline links or listed at the end.
- **Author Information:** Full name, eligibility status, Institute Roll No, email, and phone number at the end of article.

1.5 Prize Structure

Awards were announced for two separate categories:

All awarded articles will be published on the SANRAKSHAN Society website after editorial review.

Position	UG Category	PG Category
First Prize	INR 3,000	INR 3,000
Second Prize	INR 2,000	INR 2,000

Table 1: Prize distribution across categories

2. Evaluation Matrix and Procedure

2.1 Evaluation Framework

The competition employed a comprehensive 100-point evaluation matrix divided into three major sections assessing different aspects of scientific writing quality.

2.2 Detailed Evaluation Criteria

Evaluation Section	Criteria	Max. Points
I. Technical Content & Accuracy (40 Points)		
A. Accuracy	Information, data, equations, and technical claims are factually correct and error-free.	15
B. Depth & Completeness	Thorough coverage of the topic; technical details are sufficient and well-supported (e.g., theory, methodology, results).	15
C. Significance	The topic/research/solution is relevant, meaningful, and adds value or novelty to the field.	10
II. Clarity, Readability, & Style (35 Points)		
A. Clarity & Conciseness	Language is precise, easy to understand, and efficient. Jargon is defined or used appropriately for the audience.	15
B. Grammar, Spelling, & Mechanics	Free from errors in grammar, punctuation, spelling, and sentence structure.	10
C. Tone & Style	Maintained an appropriate objective, formal, and engaging technical tone throughout.	5
III. Structure & Organization (25 Points)		
A. Logical Flow (Coherence)	Ideas progress logically from section to section and paragraph to paragraph. Strong introduction and conclusion.	10
B. Formatting & Visuals	Effective use of headings, lists, figures, and tables to break up text and convey information clearly. Professional layout.	10
TOTAL SCORE		100

Table 2: Comprehensive evaluation matrix with point distribution

2.3 Evaluation Process

1. **Plagiarism Check:** All submissions underwent plagiarism detection to ensure originality.

2. **Independent Judging:** Each article was evaluated by assigned judges based on the standardized rubric.
3. **Scoring:** Judges awarded points for each criterion, with the total score determining the ranking.
4. **Category-wise Ranking:** Separate rankings were maintained for UG and PG categories.
5. **Winner Selection:** Top two scorers in each category were declared winners.

3. Participant Details

3.1 Participation Statistics

The competition received excellent response with participation from diverse departments:

- **Total Participants:** 19 students
- **Undergraduate (UG):** 8 students
- **Postgraduate (PG):** 11 students

3.2 Topic Distribution

Articles were submitted on the following themes:

Topic	Number of Submissions
Breakthroughs in India's Clean Energy R&D	5
Digitalization of India's Energy Sector	5
Socio-economic impact of energy policies	5
India's Energy Transition	3
Role of renewable energy in India's growth	2

Table 3: Distribution of article topics

3.3 Complete Participant List

Postgraduate (PG) Category Participants

Roll No	Name	Department	Program
251090416	Nirlav Muktiar	Physics	M.Sc PhD Dual
251070643	Shivangi Pandey	Chemistry	PhD
241290008	Jyoti Dubey	Sustainable Energy Engineering	M.Tech
232290602	Mayank Dhatarwal	Sustainable Energy Engineering	PhD
17204264	Biraj Guha	Electrical Engineering	PhD
251270004	Anitha Valliappan	Economics	PG
241290019	Sristi Sarkar	Economics	M.Sc.
SCU240009	Tanishka Rathi	DoMS	VLFM
251270030	Ashutosh Rana	Physics	Dual
241310005	Ganesh Jaiswal	Space, Planetary and Astronomical Sciences	M.Tech
251260036	Jigmet Yangchan	Sustainable Energy Engineering	M.Tech

Table 4: PG category participant details

Undergraduate (UG) Category Participants

Roll No	Name	Department	Program
240333	Deeptanu Neogi	Civil Engineering	B.Tech
240023	Aashvi Agarwal	Electrical Engineering	B.Tech
250236	Atharva Agrahari	Electrical Engineering	B.Tech
240498	Hirani Shah	Mechanical Engineering	B.Tech
240498	Jiya Agarwal	Mechanical Engineering	B.Tech
210497	Kartik Verma	Civil Engineering	B.Tech
211007	Shreyas Ayush Minz	Economics	B.Tech
250678	Mohit Shrivastava	Civil Engineering	B.Tech

Table 5: UG category participant details

3.4 Department-wise Participation

Department	Number of Participants
Sustainable Energy Engineering	3
Electrical Engineering	4
Civil Engineering	4
Physics	2
Economics	2
Mechanical Engineering	2
Chemistry	1
DoMS	1
Space, Planetary and Astronomical Sciences	1

Table 6: Department-wise distribution of participants

4. Competition Winners

4.1 Postgraduate (PG) Category

First Prize Winner

- **Name:** Nirlav Muktiar
- **Roll Number:** 251090416
- **Email:** nirlav25@iitk.ac.in
- **Department:** Physics
- **Program:** M.Sc PhD Dual
- **Article Topic:** Breakthroughs in India's Clean Energy R&D: From Green Hydrogen to Carbon Capture
- **Prize Amount:** INR 3,000

Second Prize Winner

- **Name:** Biraj Guha
- **Roll Number:** 17204264
- **Email:** birajha@iitk.ac.in
- **Department:** Electrical Engineering
- **Program:** PhD
- **Article Topic:** Digitalization of India's Energy Sector: AI, IoT, and Smart Grids

- **Prize Amount:** INR 2,000

4.2 Undergraduate (UG) Category

First Prize Winner

- **Name:** Kartik Verma
- **Roll Number:** 210497
- **Email:** kartikv21@iitk.ac.in
- **Department:** Civil Engineering
- **Program:** B.Tech
- **Article Topic:** The socio-economic impact of energy policies in India
- **Prize Amount:** INR 3,000

Second Prize Winner

- **Name:** Aashvi Agarwal
- **Roll Number:** 240023
- **Email:** aashviag24@iitk.ac.in
- **Department:** Electrical Engineering
- **Program:** B.Tech
- **Article Topic:** Digitalization of India's Energy Sector: AI, IoT, and Smart Grids
- **Prize Amount:** INR 2,000

4.3 Winners Summary

Category	Position	Winner	Topic
PG	1st	Nirlav Muktiar (Physics)	Clean Energy R&D: Green Hydrogen to Carbon Capture
PG	2nd	Biraj Guha (EE)	Digitalization: AI, IoT, Smart Grids
UG	1st	Kartik Verma (CE)	Socio-economic impact of energy policies
UG	2nd	Aashvi Agarwal (EE)	Digitalization: AI, IoT, Smart Grids

Table 7: Summary of competition winners

5. Conclusion and Impact

The Article Writing Competition organized by SANRAKSHAN Society successfully achieved its objectives of:

1. Engaging 19 students across diverse academic backgrounds in renewable energy discourse.
2. Encouraging analytical thinking about India's energy transition challenges.
3. Providing a platform for students to articulate technical concepts to broader audiences.
4. Recognizing excellence in scientific writing and communication.

The quality of submissions demonstrated strong student interest in renewable energy topics, with particular focus on clean energy technologies, digitalization, and policy impacts. The winning articles will be published on the SANRAKSHAN Society website, contributing to public awareness of renewable energy solutions for India.

5.1 Key Observations

- Strong participation from Sustainable Energy Engineering and Electrical Engineering departments, reflecting natural alignment with competition themes.
- Interdisciplinary engagement evident from participants in Physics, Chemistry, Economics, and Civil Engineering.
- Balanced distribution across technical and policy-oriented topics.
- High quality of writing as evidenced by the rigorous evaluation process.

5.2 Acknowledgments

SANRAKSHAN Society acknowledges:

- All participants for their thoughtful submissions.
- The judging panel for their thorough evaluation (Prof. Prabodh Bajpai, Prof. Soumyabrata Roy and Prof. Deepika Swami).
- Department of Sustainable Energy Engineering, IIT Kanpur for institutional support.
- Faculty advisors and organizers who made this competition possible.
- All the core committee members of Sanrakshan Society.

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Sanrakshan Society

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