



# Technova

## Overview:

Eligibility Criteria	Open to all students pursuing Bachelors/Masters/PHD in any science and engineering college
Team Size	Upto 3 (Individual participation allowed)
Submission Deadline	10th March , 2025
Final Event Date	23rd March, 2025
Prize Worth	Rs 20,000

## Description:

Showcase your scientific brilliance and innovative ideas at Technova! This event provides a platform for students to present technical papers or original research work in the fields of materials science and engineering. Participants can choose from one of the following themes:

- **Theme 1: Renewable Energy Materials**
  - Materials for Solar Energy Conversion (e.g., Photovoltaics)
  - Advanced Wind Turbine Materials
  - Materials for Hydrogen Production and Storage
- **Theme 2: Energy Storage Technologies**
  - Lithium-ion and Sodium-ion Batteries
  - Supercapacitors and Ultracapacitors
  - Solid-State Batteries



- **Theme 3: Emerging Energy Materials**
  - Perovskite Materials for Energy Applications
  - Thermoelectric Materials for Waste Heat Recovery
  - Piezoelectric and Triboelectric Energy Harvesting
- **Theme 4: Nuclear Energy Materials**
  - Radiation-resistant Materials
  - Materials for Nuclear Fuel Cycles
  - Fusion Reactor Materials
- **Theme 5: Carbon-neutral Energy Solutions**
  - Catalysts for CO<sub>2</sub> Capture and Conversion
  - Bio-based Energy Materials
  - Materials for Fuel Cells and Electrochemical Devices

## General Rules :

- Each team can have a maximum of 3 members. Individual participation is allowed.
- Every participant must carry their own ID proof.
- Team must submit an abstract only in one of the mentioned themes.
- Having a publication currently is not required, but it must be a proper draft.
- Participants will be disqualified if any type of plagiarism is detected.
- There's a time limit for presentation in round 2. Teams exceeding the time limit will be penalized as follows:
  - 0-1 min:** 10% of the presentation marks of the team.
  - 1-2 min:** 20% of the presentation marks of the team.
  - >2 min:** 50% of the presentation marks of the team.
- Participants need to bring their own laptop with a proper HDMI connection for the presentation.
- Evaluation will be done based on both the round performance by the team.
- In case of any disputes, the final decision rests with the organizers.
- The judges' decision is final on all matters.



## Rules for Round 1:

- For this round, participants must submit the abstract of their paper in the appropriate category through the submission form before the deadline.
- The abstract must be at most 1000 words.
- Category A:
  - Competitors should submit original research work that falls within the scope of the themes.
  - All submissions will be thoroughly peer-reviewed by experts based on originality, significance, and clarity.
  - Citations and references must be appropriately mentioned where suitable.
- Category B:
  - Participation may also be done through a well-researched technical paper, report, or presentation on the theme they write.
  - Proper citations and references to all papers used must be mentioned.
- In the case of category A,
  - Authors are requested to restrict plagiarism in any form.
  - Authors should submit their original and unpublished research work not under consideration for publication elsewhere.
  - Papers found to be plagiarised during any stage of review shall be rejected.

## Rules for Round 2:

- This round will be conducted in the form of a 'classical technical conference' at the IIT Kharagpur campus.
- Participants must prepare presentation slides that should be, at most, a time limit of 10 minutes, followed by 5 minutes of the Q&A session. Teams exceeding the time limit will be penalized.
- Evaluation will be based on the team's performance in both rounds.
- Overall top 3 winners will be selected from both categories(original and non-original papers) and awarded the cash prize.



## Frequently Asked Questions :

**Q. What is the procedure for the registration of the event? Do all members have to be registered?**

**A.** Yes, all team members need to register through the COMPOSIT Website after which they will receive a participant ID. Participants will then need to enter their participant ID on the Unstop portal to complete the registration process.

**Q: How is Category A different from Category B?**

**A:** In Category A, we look forward to seeing the submission of the original scientific work of the participant. In Category B, we encourage participants to prepare an analysis report based on a literature review of the topic of their choice and present their understanding in front of the panel of judges. Both categories will be sentenced accordingly with appropriate weightage to original work in Category A and presentation skills in Category B.

**Q. Is there a registration fee?**

**A.** No, registration is completely free on Unstop.

**Q. Can a team comprise participants from different departments or institutions?**

**A.** Yes.

**Q. Do I need to bring my laptop with me?**

**A.** Yes, you need to bring your own laptop. Make sure you have a working HDMI port or a connector with you.

**Q. What is the format of the abstract to be submitted in the first round?**

**A.** The abstract should be a short summary of the research paper or technical paper. This should highlight the objective, methodology, and key findings or insights of your work, all in a pdf with a maximum of 1000 words.

## Contact :

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