Event: Biothon- Science Driven Solution for Viksit Bharat

Description

Teams compete to address a series of bioethical dilemmas and science challenges, developing innovative solutions or arguments while adhering to ethical principles and scientific accuracy.

General Rules

1. **Team Formation:** Teams should consist of 2-4 members.

2. **Duration:** The event can last from a few hours to a full day, depending on complexity.

3. **Rounds:** Teams has to present their solution through prototype, model, oral or poster presentation.

4. **Presentation:** Each group has 5 minutes to present their solution to a panel of judges.

5. **Judging Criteria:**

   Scientific Accuracy: How well the solution or argument is based on current scientific knowledge.

   Ethical Considerations: How effectively ethical principles are applied.

   Novelty & Innovation: The creativity and novelty of the solution.

   Clarity and Communication: The effectiveness of the team's presentation and communication.

6. **Scoring:**

   Judges: A panel of experts evaluates the presentations.

   Scoring Sheets: Judges use scoring sheets to evaluate each team on the criteria above.

7. **Winning:**

   Points: Teams accumulate points based on their scores.

   Awards: The team with the highest total points is declared the winner.

   Prizes- 1st Rank- 11,000, 2nd- 5000, 3rd- 2000

8. The decision taken by the Event coordinators/ Judges will be considered as final.

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Problem Statement for Biothon- Science Driven Solution for Viksit Bharat

1. Design an effective wastewater treatment plant.
2. Development of sustainable solutions for enhancing crop production.
3. Develop a novel method for waste management.
4. Development of new technique/method for electronic waste management.
5. Reducing carbon emission from thermal plants & method for carbon capturing.
6. Development of alternative technology to check the blockage of blood.
7. AI driven crop disease prediction and management system.
8. Innovative solution for waste recycling and production of value-added products.
9. Development of portable device (non-contact) for disease identification.
10. Smart Health Monitoring application
11. Modern Innovative Ways to Use the Recycled Plastics in the Public Places.
12. An Automated System for Sampling and Analysis for the Chlorination of The Drinking Water.
13. Monitoring of Rain Water Harvesting in Existing Public and Private Properties.
14. Waste to Energy Transformation System.
15. Technology Based Solution to Improve Air-Quality Index.
16. Residential Dry Solid Waste Management.
17. Automated or Semi-Automated Waste Segregation Systems.
18. Digital Platform for Irrigation Management.
19. Automated Plastic Segregation and Feedback System.
20. Drone technology for agriculture data analysis.