CIVIL INNOVATION AND TECHNOLOGY CELL

PRESENTS

ARJUNA 2.0

OVERVIEW

Arjuna: North East Tech Summit is a nationwide initiative taken by Civil Innovation and Technology Cell, National Institute of Technology Agartala, to provide students a platform to solve some of the REAL WORLD problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

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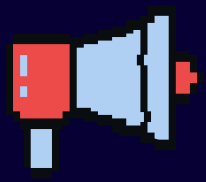
SCHEDULE OF ARJUNA 2.0

LAST DATE OF REGISTRATION
20H OCTOBER, 2025

LAST DATE OF IDEA SUBMISSION
20TH OCTOBER, 2025

GRAND FINALE
TO BE ANNOUNCED



APPLY NOW!!!
FREE REGISTRATION

PROBLEM STATEMENTS

PROBLEM STATEMENT 1

AI-Based Smart Food Waste Management

Develop a smart food tracking system that helps households, restaurants, and grocery stores monitor and minimize food waste. The system should analyze purchase patterns, track expiration dates, and provide consumption and donation recommendations. It must be user-friendly, integrate with inventory management, and ensure secure data handling. The aim is to reduce food waste, promote sustainability, and support food donation efforts.

PRIZE WORTH: 25K

PROBLEM STATEMENTS

PROBLEM STATEMENT 2

Smart Drainage and Flood Prevention System

Urban flooding due to clogged drains is a persistent issue, especially in cities with inadequate drainage infrastructure. Traditional drainage systems are inefficient in handling heavy rainfall and often lead to waterlogging. Develop a self-cleaning drainage system that prevents debris accumulation. Implement mechanical filtration at drain entry points. Introduce an underground water storage and controlled release mechanism.

PRIZE WORTH: 25K

PROBLEM STATEMENTS

PROBLEM STATEMENT 3

Carbon Footprint Tracker for Individuals

Develop a mobile app that calculates an individual's carbon footprint based on their daily activities, such as travel, energy usage, and diet. The app would also provide tips and suggestions for reducing carbon emissions.

PRIZE WORTH: 25K

PROBLEM STATEMENTS

PROBLEM STATEMENT 4

Smart Energy Recovery System

Industries like steel, cement, and glass manufacturing produce a significant amount of waste heat that often goes unused. The goal of this challenge is to design a smart waste heat recovery system that can convert this residual thermal energy into electricity or useful mechanical work. Design setups with IoT sensors and build a smart dashboard. It should reduce energy waste, lower fuel consumption, promote circular energy usage.

PRIZE WORTH: 25K

FAQ

1. WHO CAN PARTICIPATE?

College/university students irrespective of branch, year, domain, across the country are encouraged to take part in this renowned competition.

2.HOW DO I REGISTER?

Team Leader has to register through the Google Form

FAQ

3. WHEN TO REGISTER?

Team Leader has to register on or before 10th June, 2025 tentatively.

4. WHAT IF I DO NOT REGISTER?

Unregistered team won't be allowed to take part in the competition after the deadline.

FAQ

5. IS THERE ANY REGISTRATION FEE?

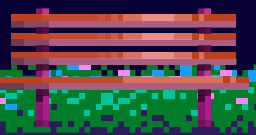
YES

NO

6. CAN ANY TEAM PARTICIPATE IN MORE THAN ONE PROBLEM STATEMENT?

YES

NO



TEAM FORMATION

1. All team members should be from the SAME college/university; NO inter-college/university teams are allowed. However, members from different branches/domain of the same college/university are encouraged to form a team.

2. Each team should mandatorily comprise of FOUR members including the team leader.

3. Presence of atleast ONE female member is highly appreciated and encouraged (NOT mandatory). However, it may give an edge to the team.

IDEA NOMINATION PROCESS

1. After the team leader has registered his/her team name via the registration gform on/before the deadline as mentioned above, a WhatsApp group will be formed comprising of the team leaders. Note: Only the group leaders should join the group.

2. Another gform will be shared in the WhatsApp group and all the team leaders have to upload their ideas against a particular Problem Statement.

3. Ideas submission count will start from 15/09/2025 and end at 15/10/2025 tentatively. After the deadline, no submission will be entertained.

4. Format for the Idea submission will be attached in the registration gform itself.

2.0 ARJUNA

GRAND FINALISTS ANNOUNCEMENT

1. Notifications regarding selected teams will be notified via email of the team leader.
2. FIVE teams per Problem Statement will be selected to compete in the Grand Finale.

IDEA SELECTION CRITERIA

Ideas will be evaluated based on novelty, complexity, feasibility, sustainability, impact, user experience, and potential for future work.

GRAND FINALE

1. The Grand Finale will occur in the Civil Engineering Department of National Institute of Technology, Agartala.
2. The program will be for TWO days .
3. Each team has to make a presentation & a prototype (optional) against their respective problem statement.
4. There would be ONE single winning team for each problem statement.
5. Amount of prize money to be awarded to each winning team is Rs. 30000/- per problem statement.
6. The final decision of the winner team will be taken by Judge Panel only and once the decision is made, it won't be changed further.
7. Teams are also encouraged to think out of the box and provide creative solutions to the respective themes.

MISCELLANEOUS INFORMATION

1. Reimbursement of travelling expenses or any kind of travelling allowance won't be beared by the organizing Institution and Participants should arrange their own TA.

2. Accommodation will be provided for the participants travelling from outside of Agartala city. The dates will be declared soon. No accomodation will be given to participants who are residents of Agartala city.

3. Food will be provided for all the participants.


2.0
ARJUNA