



CIVIL ENGINEERING DEPARTMENT



ARJUNA

NORTH EAST TECH SUMMIT 2024

>>> OVERVIEW <<<

Arjuna: North East Tech Summit 2024 is a nationwide initiative taken by the Civil Engineering Department, National Institute of Technology, Agartala in collaboration with Civil Innovation and Technology Cell, to provide students a platform to solve some of the pressing 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 Program



1.

**LAST DATE OF REGISTRATION
1ST JULY, 2024**



2.

**LAST DATE OF IDEA SUBMISSION
20TH JULY, 2024**



3.

**GRAND FINALE
6TH AUGUST, 2024**

APPLY NOW!!

**Last date of Registration:
1st July 2024**

Registration Fee: Rs 500 / team

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NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

Problem Statements



Case Study 1

Groundwater Recharge

The current rate of groundwater depletion due to over-extraction and limited recharge mechanisms poses a critical threat to water security and ecosystem sustainability. Effective groundwater recharge strategies are urgently needed to mitigate this imbalance and ensure long-term water availability for communities, agriculture, and ecosystems.

Prize Worth: ₹20K

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Problem Statements



Case Study 2

Advancing Landslide detection & Warning System.

Despite significant advancements in technology, effective detection and timely warning systems for landslides remain elusive in many regions. Landslides pose a severe threat to human lives, infrastructure, and the environment, making their accurate prediction and timely notification crucial for mitigation and disaster management efforts. This case study is aimed at using modern engineering technologies such as artificial Intelligence, internet of things etc to come up with promising solution to this alarming problem.

Prize Worth: ₹20K

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Problem Statements



Case Study 3

Earthquake Resistant Building

Designing earthquake-resistant buildings that leverage a blend of contemporary engineering techniques and traditional construction methods poses a significant challenge due to the need to integrate diverse materials, technologies, and architectural principles while ensuring structural integrity and safety in the face of seismic activity.

Prize Worth: ₹20K

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Problem Statements

Case Study 4

Net Zero Mission & Infrastructure Development

In the face of escalating climate change concerns, there is an urgent need to transition towards net-zero emissions to mitigate the adverse effects of greenhouse gas emissions. This competition seeks to address this challenge by inviting participants to propose innovative solutions that not only achieve net-zero emissions but also promote sustainable infrastructure development. Participants need to focus on designing strategies, technologies, and policies that enable the reduction of emissions across various sectors while simultaneously enhancing the resilience and efficiency of infrastructure systems. The competition aims to inspire actionable solutions that drive meaningful progress towards a sustainable, net-zero future.

Prize Worth: ₹20K

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FAQS

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
[<https://forms.gle/QjjiFgKxQ86uefHE8>]

3. When to Register?

Team Leader has to register on or before 1st July, 2024 tentatively.

4. What if I do not register?

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

5. Is there any registration fees?

The registration fees is **500 INR per team.**

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).

Idea Nomination Process

1. After the team leader has registered his/her team name on/before the deadline as mentioned above, a WhatsApp group will be formed comprising of the team leaders.
2. Google form 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 counter will start from 01/07/2024 and end at 20/07/2024 tentatively. After the deadline, no submission will be entertained.
4. Format for the Idea submission will be shared in the WhatsApp group itself.

Shortlisted Ideas 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 Auditorium of National Institute of Technology, Agartala on 6th August, 2024 from 8 AM to 5 PM.
2. The program will be for ONE day .
3. Each team has to make a presentation & a prototype 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. 20000/- 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.
2. Accommodation will be provided w.e.f 05/08/2024 to 07/08/2024 for the participants coming from a very far distance.
3. Food will be free on the above mentioned dates i.e from 05/08/2024 to 07/08/2024



APPLY NOW!!

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