

NIRMAAN 2019- EVENT LIST

1. CADclash

Ready to show-off your software skills in AutoCAD and flaunt your creativity? Go down the spiralling staircase of tests, each more challenging than the other

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Event structure:-

Preliminary round: Quiz on basic concepts of planning and drafting

Qualifier round: Draft the elevation in isometric view for the plan provided

Main round: For the given plan of a simple building, draft the MEP layout. A standard legend is provided to maintain uniformity.

Rules and instructions:-

Individual event.

The work of participants will be judged on the basis of extent of achieved objectives, drafting skills, presentation and accuracy and the top two winners will be selected.

Decision of panel is final and binding.

2. Accelerating to zero

Be a good Samaritan and share your ideas for the betterment of the world.

Event structure:-

Main round: Teams have to present the concept of zero-energy and sustainability in buildings through PPT and a paper presentation.

Rules and instructions:-

A maximum team size of 4 members is allowed.

The presentation shall not exceed 5 minutes.

The teams will be judged on the basis of their presentation skills and content and top two winning teams will be selected.

Decision of panel is final and binding.

3. Bridge your way

Bridges are marvellous structures, aren't they? Enter the fray and build a bridge using basic structural design thumb rules.

Event structure:-

Preliminary round: Quiz on steel structures

Main round: The top ten teams who make it to this round will have to prepare a models of bridge out of steel bars and wires which are later tested for strength and load bearing capacity.

Rules and instructions:-

Team size- 4 max.

The teams will be judged on the basis of parameters such as strength, load bearing capacity, ratio of load bearing capacity of bridge to its self-weight and top two winning teams will be decided.

Decision of panel is final and binding.

4. FOUNDART

For those expressive souls out there, bring out the artist in you and create a poster for the given topic.

Event structure:-

Main round: The participants are supposed to create a poster using newspapers provided to them. Topic will be given on spot.

Rules and instructions:-

Team size- 3 max.

The teams will be judged on the basis of relevance of poster to the topic and creativity and top two winning teams will be decided.

Decision of panel is final and binding.

5. CONfuse

Time to tickle your mind with a problem statement. Unknown parameters and hidden surprises await you. Prepare a concrete cube using plastic as partial replacement of fine aggregate.

Event structure:-

Preliminary round: Quiz based on concrete and its properties. Top 4 teams will be chosen for next round

Main round: The participants need to design a concrete mix using plastic as partial replacement of fine aggregates. The participants are given the freedom to choose the proportion of replacement. However the replacement must be a minimum of 10% . There will be one unknown parameter which can be indirectly calculated. The teams must cast a cube.

Rules and instructions:-

Team size- 4 max

Participants need to study about concept of plastic concrete in order to judge the proportion of replacement

The teams will be judged on the basis of accuracy of mix design and one day cube strength and top two winning teams will be selected.

Decision of panel is final and binding.

6. CIVIClan Hunt

“Not all treasure’s silver and gold, mate”. Bring out the explorer within you and decipher the clues that await you at each stage. Your mission, should you choose, is to decipher the clues, reach the destination and complete the task...

Event structure:-

Preliminary round: The participants are given puzzles to solve.

Main round: Qualified teams will be sent on the hunt. Instructions will be given on the spot. At each point clues are provided. Decipher the clues and reach the destination where a task awaits you. Complete the task and reach the final point with the result. The first team to complete the task wins the competition.

Rules and instructions:-

Team size-5 max.

Sound knowledge on laboratory tests

Instructions about points of contact will be given on spot

7. Workshop

Enhance your knowledge by gaining hands-on experience on latest advancements in Civil engineering.

Event structure:-

SESSION-1: Prediction of climate change using modern techniques

SESSION-2: IOT applications in civil engineering

SESSION-3: Smart materials in civil engineering

Rules and instructions:-

Individual event

For session-2, registrations will be done on first-come-first basis. Top 30 participants will be allowed to take part in session-2.

However, no such restrictions are there for session-1 and session-3.

8. CALL IT GREEN

Have some ideas about net-zero energy? Use this opportunity to present them through a working model.

Event structure:-

Participants need to present a model on the day of the event. The models should be related to the theme- "Net-zero energy"

Rules and instructions:-

Team size-2 max.

This event will be judged by the faculty of Indian Concrete Institute

The top two winners will be selected based on their model presentation.

Decision of panel is final and binding.

9. Blendoplast

Stability is a constant you can count on. Prepare a bitumen mix and check for its stability.

Event structure:- A brief PPT will be given prior the commencement of the event.

Preliminary round: Quiz on highway materials.

Main round: The top 5 qualifying teams will enter the main round where they should perform a Marshal Stability Test.

Rules and instructions:-

Team size-3 max.

The top two winners will be selected based on the test results and mix design.

Decision of panel is final and binding.

10. Geotechnique

“Soil-The good kind of dirt”. Prove your experimental skills by testing out the properties of the given soil sample.

Event structure:-

Preliminary round: Observe the visuals related to Soil mechanics and Foundation engineering and answer the questions related to the visuals.

Main round: Top 6 qualifying teams must conduct the given experiment related to Soil mechanics and foundation engineering.

Rules and instructions:-

Team size-2

Name of the experiment will be given on the spot.

The top two winners will be selected based on test results.

Decision of panel is final and binding.