

DESIGNCEPTION

Allocation: **Rs. 15000/-**

First: **Rs. 7000/-**; Second: **Rs. 5000/-**; Third: **Rs. 3000/-**

Dates:

15th February 2016 – Announcement of Competition

28th February 2016 – Last date for submission of TDP's for Mentor Round

2nd March 2016 – Announcement of Results of Round 1

3rd March 2016 – Beginning of Round 2

5th March 2016 – Last date for extended submission

7th March 2016 – End of Round 2

8th March 2016 – Announcement of Results of Round 1 for extended submissions

24th March 2016 – Finals

Dates are subjective to change. You are informed to check the dates on the website in case of any change.

Participants will be intimated regarding any changes by email.

Event Format:

Round 1: TDP Submission

In this round all participating teams will need to submit a Team Description Paper (TDP). A detailed report on the functional aspects of your design should be sent to us. This should contain pictures, mechanisms, animations, electronic circuits, sensor details etc. explaining your prototype. Teams with appropriate TDP will be selected for the second round. The teams are expected to do thorough groundwork regarding the concepts used before the beginning of Round 2. Those teams whose TDP's are submitted in the extended deadline time will be informed if they are directly through to the finals. They will not have to pass through Round 2.

Round 2: Mentor Round

There is no elimination in this round. A mentor will be assigned who will guide the design and help in ideas related to prototyping. This will be done via Skype or Google Hangouts. This round is optional and it is only to help in developing design. Teams will be allotted mentors on first-come-first-serve basis.

Round 3: Final Round

The finalists will be asked to demonstrate their mechanism live in front of the panel of judges as well as audience in a suitable location. They will also have to give a 5-10 minute presentation explaining details of their design and its features to the jury. The teams are expected to perform engineering analysis regarding their design. It may include time of flight calculation, material considerations etc. In addition they also need to include details of their previous designs/prototypes if any in the presentation and also explain in detail the evolution of present concept. If the live demonstration fails, a previously working prototype video will be accepted and graded accordingly. The parameters that will be judged in this round: Live demonstration, Time of fall, automatic trigger, brain-storming reports.

Rules:

1. All engineering streams are welcome to participate.
2. A maximum of 5 members are allowed in a team.
3. Any accepted CAD software can be used. Eg: Solid works, Catia, CREO, Autodesk Inventor, etc. For detailed analysis, software such as Ansys, Fluent, MSC Adams, etc. can also be used if necessary.
4. Participants have to upload their Team Description Papers (TDP) for the preliminary round in

the Samgatha website. The selection for the finals would be based on this. The format of the TDP can be found here. (Link will be placed here)

5. Failure to turn up a working model in the final round will lead to instant rejection.
6. The designs can be altered for the finals with reasonable explanation for the deviation.
7. Decision of judges is final and binding.

Problem Statement: “The Suicide Egg”

An egg wants to commit suicide by jumping from a height of 14 metres. Ensure that it doesn't succeed by using your engineering mind. The trigger for the fall should be automatic. Special weightage for including an on-board time of fall meter (i.e a timer in the mechanism to measure time of fall). Quadcopters and bean bags are not allowed.

Relay CAD

Allocation: **Rs. 7500/-**

First: **Rs. 3500/-**; Second: **Rs. 2500/-**; Third: **Rs. 1500/-**

Pre registrations + On spot

Event Format:

A 3x15min relay of modeling real-life objects in Autodesk Inventor.

The models will be evaluated based on:

1. Completeness of the design (Higher level of detail)
2. Time taken to finish the model

5 minutes – Discussion about the Statement

15 minutes – Member 1

5 minutes – Break

15 minutes – Member 2

5 minutes – Break

15 minutes – Member 3

Rules:

1. Software and workstation will be provided on the spot
2. Decision of judges will be final and binding
3. Models submitted after allocated time in the event will not be considered.
4. Each team must strictly be composed of 4 members.
5. Copying, PLAGIARISM of any kind will lead to disqualification

Assemble

Allocation: **Rs. 7500/-**

First: **Rs. 3500/-**; Second: **Rs. 2500/-**; Third: **Rs.1 500/-** Procurement: **GA**

Pre registrations + On spot

Event Format:

This is an on the spot event with a single round. Each team will be given a completely disassembled product. The teams need to assemble the complete product in as less time as possible within 1.5 hrs.

Judgment will be based on:

1. Completeness of the assembly
2. Time taken to finish the assembly

3. Working condition of assembly

Rules:

1. Decision of judges is final and binding
2. This is a team event with about 4 members per team
3. Assemblies will be evaluated as soon as completed or at 1 ½ hrs from the commencement of the event whichever is earlier

Panel Discussion

Allocation: **GA**

Topic: **StartUPedia**

All are invited.

Discussion will be between a panel of eminent persons from the industry.

Transportation, Food/ Water will be provided to the panelists

Moderator: Pramodh Nareshkumar

*****Names of panelists will be intimated after discussion with Srushty*****