# EGG DROP

## Problem Statement

## Introduction

### General Rules

- Each team can have a maximum of 2 participants.
- Certificates of Excellence will be awarded to the top two teams.
- In case of any disputes/discrepancies, the organizers' decision will be final and binding. The organizers reserve the right to change/alter any of the above rules as they deem fit.

### Criteria

- You have to develop any structure or design which would prevent the egg from breaking down when dropped from a specific height (Starting from 4 feet). After each round, the height would be increased.
- In the first round all teams will be asked to drop their container along with egg from a specific height. The eggs those will survive will go for the second round and so on.
- The device must get fully enclosed into a box of 25cm×25cm×25cm.
- The weight of the device (without egg) should not exceed 250gms.
- The egg should be visible in the structure. It should not be completely enclosed.
- The egg must be able to be removed from the container in less than 2 minutes.

### Materials

Any material may be used in design except metal, glass or other shattering material (for safety reasons).eg;

- Small boxes

- Rubber bands

- Tape

- Cups

- Eggs (half-boiled for building, raw eggs for the actual drop)

- Yarn & string

- Bungee cords

- Sandwich containers

- Baggies

- Egg cartons

- Cotton balls

- Brads

- Paper clips

## DESIGN AND CONTEST RULES

- No kits or pre-made designs may be used. The structure must be the individual's invention.
- The structure must be completely released (no strings or other attachments) NO PARACHUTES!
- No propulsion systems will be allowed.
- No gases (i.e. helium) other than air can be present in the structure when it is weighed.

## JUDGING CRITERIA

- Eggs will be supplied at the competition. You cannot bring your own egg.
- All containers will be inspected by judges before they are dropped.
- The egg must be placed into the container on-site.  A maximum of 120 seconds will be allowed to place the egg into the container. Exceeding these time limits will lead to a 15 point deduction.
- If the egg is damaged during placement in the container, there will be a 15 point deduction. The contestant will have one other chance to place an egg in the timeframe without breaking the egg.
- The egg must be undamaged after the drop in order for the score to be recorded.
- The winner will be determined by the container with the greatest total score.

### Event Head (Final Year)

Aaroh Vishnoi (EE)                     Ankit Kumar (ECE)                     Yashanki (ECE)
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