

# Amortecedor

*....better design for better comfort*

Maximum participants- 3 per team

Entry fees- Rs.200

## Problem Statement:-

To design the suspension system for single wheel (approximate bicycle size) by using springs which carries the weight range provided by us.

## Details:-

1. Design the suspension system for wheel of bicycle size.
2. The flat plate should be used above the wheel which must be perfectly horizontal to carry the load provided by us. The dimensions of the flat plate must not exceed 30cm\*30cm.
3. The loads are provided by us having range 1kg to 10kg.
4. Driving handle for wheel should be provided to operate the wheel manually

### Round 1:-

1. There will be speed breakers/obstacles which are built by us and you have to cross the obstacle in minimum time.
2. There should not be fall of weight during crossing the obstacle.
3. The maximum number of attempts are three.

### Round 2:-

1. You have to cross the obstacle by carrying weight along with a glass full of water and water should not spill.

### Round 3:-

This round will be surprise round.

### Scoring:-

1. Time taken for crossing the obstacles.
2. Design of the suspension system as per our dimensional constraint.
3. Aesthetics of design.
4. Decision of judges.

Team details:-

1. A team can have maximum three members.
2. Team members can be from different colleges.

Tentative Even Budget:

Expected entry count-20

Collection=20 x 200=Rs.4000

**For more information you can contact:-**

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