



Diseño Suspensión

Pool Event

Points: 25

The job of a car suspension is to maximize the friction between the tires and the road surface, to provide steering stability with good handling and to ensure the comfort of the passengers. A typical suspension system comprises of spring, Damper, Control Arms and Upright.

Event Objective

Design a small cart with a working suspension setup, which can endure in a fairly rough terrain

Rules

- This is a pool event, only one team is allowed from each pool
- Team can comprise of 3 – 5 members, with at least 2 students from Y14 batch
- Dimensions of the cart must be within 30x30x30 cm³
- The weight of the cart should not exceed 2 Kg
- There should be a 8x8 cm² empty area on the cart to keep payload for testing the suspension in the arena
- The judging will be subjective, with evaluation on the basis on design, fabrication and testing of cart on a special arena
- Self-fabricated parts will earn extra points
- Each team should submit an abstract before the event specifying the material required and a brief description of the mechanism and design. The deadline will be notified later.
- In case of any dispute, the decision of the coordinators will be final and absolute

Extra Features

- If the teams are able to complete the basic problems statement in time, then they can go for extra features like dampers, etc.
- The extra features will be evaluated only if the team has completed the basic problem statement.

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