ARMSTRONG

Event Description:

Armstrong is a competition that centres on hydraulic systems, based on Pascal's law, which states that pressure in an enclosed fluid remains constant in all directions. These systems are essential in various applications like car brakes, hydraulic lifts, jacks, and airplane wing flaps. Participants must create a robotic model with a hydraulic arm capable of lifting a given load without using any electronic components.

Team Requirements:

- Each team can consist of up to 4 members.

Round 1:

- Teams will present their hydraulic arm models to the judging panel.
- Models that function correctly will advance to the next round.

Round 2:

- Teams must pick and stack disorganized objects in a specific order, which will be provided during the event.
- The time taken by each team will be recorded, and the top 10 fastest teams will move on to the next round.

Round 3:

- Teams will lift weights with their hydraulic arms.
- The hydraulic arm must hold the load for at least 10 seconds.
- The team whose arm lifts and sustains the maximum load will be declared the winner.

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General Rules and Guidelines:

- Teams must register for event by filling the google form.
- Participants must report 15 minutes before their scheduled time; late arrivals may be disqualified.
- All team members must present a valid college ID card to participate.
- Misbehaviour by any participant may result in disqualification.
- Use of LEGO kits, their parts, or pre-made mechanical parts is prohibited. NEXUS is not responsible for any late, lost, or misdirected entries.
- The organizing committee reserves the right to amend any rules as necessary, with registered participants being informed of changes via email, message, or WhatsApp.
- The jury's decisions are final and binding.

Test your engineering skills and compete to build the most robust hydraulic arm at NEXUS's Armstrong event!!!!!

Contact for Queries :

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