

Canon Gun (Institute level)

Date: 29-03-2019

Venue: Students Park

Prize:

1st prize— Rs. 3000

2nd prize—Rs. 2000

3rd prize—Rs. 1000

Organising Team: Team Hermetica

Description: Canon gun is an Institute level event in which participants will be provided with a large scale model of a pressurised P.V.C canon gun which they have to shoot. It will be made of PVC piping with slits for trigger and chamber for pressure development. The cannon will be used to hit the target and team will respectively score points. After that they will proceed to second round. In this teams will make the miniature form of canon gun of P.V.C pipe and will use projectiles for aiming. Once the gun is formed the participants will be given three chances to test their contraptions. After that they have to compete against other teams again, and points will be given accordingly to each team on the basis of their projectile range, more is the range more is the reward point, and the team with advantage will win.

Rules:

- 1) Teams will be judged in first round based on target hitting point.
- 2) For the second round time limit will be there, if any team is unable to meet up with time it will be disqualified.
- 3) For final round the team will be judged on the basis of range achieved by projectiles.

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Aqua Rocket (Department Level)

Date: 31-03-2019

Venue: Students Park

Prize: 1st prize: Rs.2500

2nd prize: Rs.1500

3rd prize: Rs.1000



Organising Team: Team Hermetica

Description: A water rocket is a type of model rocket using water as its reaction mass. An antacid tablet and water are put into a canister rocket, reacting to form carbon dioxide gas, and acting as the aqua rocket propellant. With the lid snapped on, the continuous creation of gas causes pressure to build up until the lid pops off, sending the rocket into the air.

Like all rocket engines, it operates on the principle of Newton's third law of motion. Water rocket hobbyists typically use one or more plastic soft drink bottle as the rocket's pressure vessel.

Various teams will compete to construct the best aqua rocket and win the competition!

Rules:

1. Students will gather in student's park in a team of 2 or more participants each.
2. Each team will be provided with a bottle or a canister and water and required things.
3. They will carry a reaction which will produce a thrust and the one with maximum range will win.

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React Hunt (Department Level)

Date: 30-03-2019

Venue: Chemical department ground

Prize: 1st prize: Rs.2500

2nd prize: Rs.1500

3rd prize: Rs.1000

Organising Team: Team Hermetica



Description: React hunt is an event that will send out teams throughout the campus, looking for clues. A team of four will decode these clues ultimately leading them to the location for the next round where the participants will have to discover a puzzle which will be hidden in ice and the ice is to be melted using the provided chemicals. This will lead to the next puzzle which is itself the last question, as soon as the team finds out the answer they win the hunt.

Rules:

1. The participants will gather in the ground in front of chemical engineering department in teams consisting 4 members each.
2. They will be provided with some material and chemicals using which they will get their first clue which will lead them to a new location. Similarly, they will get their 2nd and 3rd clue.
3. After 3rd round the top 3 teams will face each other in a fun event and the fastest to do that will get 1st prize.
4. Similarly 2nd and 3rd prize will be awarded.

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Potential Energy Chemicar (Preparatory Event)

Date: 30-03-2019

Venue: CB parking

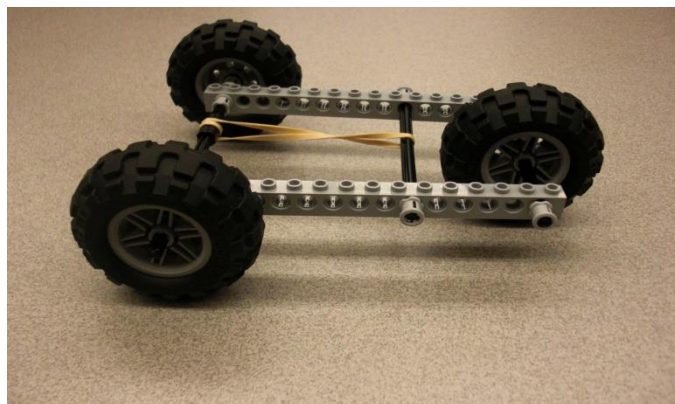
Prize:

1st-Rs.1500

2nd -Rs.1000

3rd-Rs.500

Organising Team: Team Hermetica



Description: Potential energy stored car works on the principle of potential energy stored in rubber bands or any other elastic material that is then converted into rotational kinetic energy through the turbine like structure attached behind it which provides the base for the thrust force which eventually pushes the car forward. After that the cars will be boosted using chemical mixture which will be triggered using the elastic material too. The speed of the car and the distance covered by it is directly proportional to the number of coils in the rubber band. In a hypothetically ideal world this would act as perpetual machine which can do work without providing any extra energy.

Rules:

- 1) Teams will be provided with the raw material one week prior to the event.
- 2) A prototype car will be shown to the participating teams.
- 3) They have to assemble the material into the car and bring their respective cars to the event's venue.
- 4) Further testing process will be conducted in the assigned venue only.
- 5) Teams will have to race against each other using the car on a track of 10 m.
- 6) Judgement criteria will be the time taken to complete the track.

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Chemingo(Quiz)

Date: 12-03-2019

Venue:

Level I:-online

Level II:-offline (Auditorium Conference hall)

Prize:

1st prize-Rs 2500

2nd prize-Rs 1500

3rd prize-Rs 1000



Organising Team: Team Hermetica

Description: This Quiz is an open quiz which is to be organised on Nimbus official website and after that the qualifiers will be promoted to next round which will be held offline and is divided into 3 parts

- 1) Chembingo (Spin the wheel)
- 2) Questionnaire
- 3) Rapid fire.

Questions will be generalised and mostly based on the theme of Nimbus'19 "Achintya".

Rules:

- 1) Participants have to register themselves on the official website of Nimbus.
- 2) Level one will be conducted online on the website only.
- 3) Each participant has to answer 12 questions.
- 4) Time taken to answer each question will be recorded and qualifiers for next round will be selected on this basis only.
- 5) Participants will be shortlisted after the consecutive rounds offline.
- 6) The participant with the highest score in rapid fire will be awarded winner.

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