**FORK LIFTER**

This is aiming to enhance the hands on small models of mechanical engineers. The event is all about building a small fork arm using wood and pin joints, and to lift a small weight. Few events challenging the student’s ability apart from academic proficiency help them to feel the different fields like designing, tooling and many more.

**RULES:**

1. Crane should be made of wooden material. The weight of the crane should not exceed 5 kilograms.
2. No additional support should be provided in any way.
3. The crane should works on hydraulic mechanism only.
4. Locomotion of any part of the machine should be powered by hydraulic force (you can move the syringe by hand if required).
5. The crane should be controlled by fluid containing syringes.
6. Use of batteries and other power sources is prohibited.
7. Only Adhesives (Synthetic white adhesive or single component cyano-acrylate adhesive) can be used to build the structure.
8. Use of M-Seal and Cello-tape is prohibited. Use of threads is permitted. Ice-cream/pop-sickle sticks can be stacked to make stronger elements.

**Round 1:**

In this round points will be given to each crane on the basis of maximum weight it can lift for 5 sec. Points of this round will be added in the final score.

**Round 2:**

In this round teams will be given a task to perform, the task will be of picking up blocks and placing them on the specified location.

**Round 3:**

Selected teams will have to build a building with blocks in given time.

Point will be given on basis of height and stability of building.

**General Rules:**

1. The maximum time of 5 minutes is given to each team to lift as much weight as they can.
2. Team members are not allowed to touch any part of crane, except the controlling syringes. So they should be mounted separately.
3. Maximum of 4 members per team is allowed. Maximum of two people will be allowed to control the machine at any point of time.
4. Use pin joints only.
5. The organizers reserve all rights to change any of the above rules as they deem fit. Change in rules, if any will be highlighted on the website.
6. In case of any discrepancy the decision of the judges will be final and binding to all.

**Entry Fee : Rs.300 (Per Team, Approx. 30)**

**1st Prize : Rs.2500**

**2nd Prize : Rs.1500**

**Date: 17/03/2019**

**Time: 9:30 AM – 02:30 PM**

**Venue: D-Block Ground floor**

**Faculty Coordinators**

**1. Mr. Satya Prakash Saini**

**2. Mr. Nikhil Jain**

**Student Coordinators:**

1. **Mr. Kabir R Singh - 9414231906**
2. **Mr. Vaibhav Jain - 95291 26640**
3. **Mr. Ankur Aggarwal - 85030 01401**
4. **Mr. Shobhit Kaushik - 97855 87796**