

# **PRODYOGIKI '19**

## **ChemBoat**

Marangoni effect is the mass transfer along an interface between two fluids due to a gradient of the surface tension. Huh!! Seems too complicated. Well come and see yourself by taking part in our even "CHEMBOAT".

### **Event Description:**

- The event consists of a team of 2 members and has been divided into 2 rounds:
  - Round 1: All the participating teams will be given a list of materials and chemicals, from among them they will have to choose which one they want to use for constructing the boat. The boat is to be designed and constructed on the spot.
  - Round 2: After the boat is constructed, the teams have to boost their boat by pouring their chosen chemical by a dropper through a specified water track. The boat which covers the longest distance in shortest time wins the game.

### **Rules:**

- The teams now have to make a boat by using the materials that they chose.
- All the chemicals, materials etc. will be provided by us. The teams do not need to bring any raw material for constructing the boat.
- By using the chemicals, they will boost their boats.
- Boat must not have any mechanical/electrical part (e.g. motors, turbines)
- Mechanical push/pull is not allowed.
- Chemicals will be poured using droppers and only limited volume of chemical.
- In case of tie, the decision of the judges will be final.

### **Judging Criteria:**

- Team whose boat covers the maximum distance in shortest time will win.