

## **Hydrophilic 2.0**

### **THEME:**

Water pollution

Now a day's majority of people are suffering from water pollution problem in villages because they didn't have proper purification system due to the lack of knowledge and poverty to overcome this problem they can use some easily available materials to purify water.

### **PROBLEM STATEMENT:**

The main aim of this event is to find out how we can use the basic day-to-day life materials to purify water. Before the technological revolution, people are very dependent on raw materials available around them for different purification techniques. Now, let's see if we can do the same.

The competition will consist of 2 rounds.

### **ROUND 1: Quiz**

#### **Event Type:**

Discussion and practical availability

#### **Team Size:**

Two members

#### **Rules and Procedures:**

- Use of mobile phone is strictly prohibited,
- Students will be divided in teams among themselves (2 members will be labelled A and B) and given a topic each.
- They have to discuss among themselves and solve the problem in best possible way.
- The top 20 teams to explain best possible way will go to second round.

#### **Judging criteria:**

Participants will be judged on the following areas:

- Time
- Suitable design
- Economic feasibility
- Explanation skills

**Team specification:**

A team may consist of a maximum of 2 participants. Students from different educational institutes can form a team.

**Eligibility:**

All students with a valid identity card of respective educational institutes are eligible to participate.

**ROUND 2: Water Purification System Designing**

In this round we will be providing you the raw materials some of which will work as a purifier while, others will pollute it. Teams will have to use a certain number of raw materials for making their purification unit in a limited period. The Jury Members (Faculty of Biotechnology) will test water samples of every team. The top 4 teams will have to explain the working mechanism of their water purification unit. The team that will explain the whole mechanism of its purification unit properly will be the winner.

**Rules:**

- Only limited number of raw materials can be used as per instructions.
- Use of cell phone is strictly prohibited.
- Only 20 minutes will be given to each team to make water purification unit.
- In case of any disputes / discrepancies, the organizers' decision will be final and binding.
- The organizers reserve the rights to change any or all of the above rules as they deem fit. Change in rules, if any will be highlighted on the website.

**Judging criteria:**

Participants will be judged based on:

- Ph. Test
- TDS Test
- Odour Test
- Explanation

**Team specifications:**

A team may consist of a maximum of 2 participants. Students from different educational institutes can form a team.

**ELIGIBILITY:**

All students with a valid identity card of respective educational institutes are eligible to participate.

**EVENT COORDINATOR:**

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