

ELECTRONICS HOBBY CLUB

...innovate to implement

DAY-1

YANTRASH LEPYA: **HARDWARE MODELLING**

THEME:

RAIN WATER HARVESTING (FOR 2nd & 3rd YEAR)

1. Problem Statement (*Hardware Based*)

Design a rain water harvesting model which will detect the rainfall first. If the rate of rain fall crosses a predefined level it should trigger the collection process. At collection point two containers must be there to collect the water which works sequentially, one after the other.

Bonus:

Provision to get the clothes inside the shed automatically once the rainfall crosses the predefined level.

Rules:

1. Preference would be given to the model working without the use of controller.
2. There are no restrictions on the use of electronics components.
3. A team may consist of maximum **3** members.

2. Problem Statement (*Microcontroller Based*)

Design a model that recycles the harvested water for watering the plants in home premises by checking the moisture level of the soil. The watering process must be controlled by the water level indicator associated with the containers.

Bonus:

The whole system should be automated to initiate the process after it gets dark in the evening.

OR

Problem Statement (*Idea Presentation*)

It should highlight a problem with a viable solution. The participants have to be innovative and should make hardware model that could perfectly address to their problem.

Rules:

1. There are no restrictions on the use of electronics components.
2. Microcontrollers can be used.
3. Idea should be innovative and new.
4. Hardware model of the same is required.

EVENT 2

MANOGATA PRASTOTAVYA:

IDEA PRESENTATION

(FOR 1st YEAR only)

Showcase any idea that promotes green technology. A working model or an animated model is recommended.

Rules:

1. The members in a team should not exceed more than 2.
2. Only first year students can participate in this category.

Registration Process: Students can participate as individual or in group. To register, students have to visit the SANKALP 2K19 website or OIS and fill the details under EHC event section.

Event coordinators:

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