AUTONOMOUS WATER CRAFT

1. INTRODUCTION:

An exciting problem has been designed to develop and test your skill in arduino,sensors and robotics.

2. ARENA:

The arena is 2.7m wide 2m deep and 5m long.

3. MISSION:

The mission is extremely sportive and interesting as it will involve the participants in not just making the bot but also controlling it with perfection of timing.

- Two participants will stand on either side, one each of the Arena and will control the bot Using wistle as sound sensor is controlling direction.
- They have to control and navigate the bot near ballons such tht sensor can detect and deploy the needle to burst ballons.
- The Bots have to move around the arena filled with ballons at random whom to burst .
- The position of ballons will not be same as shown in fig.The above figure is just to give an idea of the Problem Statement.
- The teams should try to burst as many as ballon they can before the limited time

4. CRAFT REQUIRERMENT:

- Can have a maximum of two propellers and a handle attached with

needle.

- Bot should not be controlled by wire or remote.
- Bot size -At max 30*30.
- Can be controlled sound sensor, (no restriction on no of sensors used) and ping sensor.
- Electronics should be made water proof by keeping in a box.

5. SCORING CRITERIA:

- The team will get 10 points on bursting each ballon.
- In case of a Tie,on the basis of controlling performance winner will be decided.

6. TEAM SIZE: 2- 6 members.

7. VIOLATION:

- Craft staying in the arena for more than the time specified by the coordinator will be disqualified.
- Bot should be driven safely.

8. FAQ:

- **Que:** What will be the size of the team?

  Ans: The maximum size of the team is restricted to 6 members

- **Que:** Do all the team mates need to be from the same college?

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Ans: NO, the team members can be from different colleges.

- **Que:** Is there any deadline for registration submissions?

  Ans: Registration ends on 1st Mar 2017, 5 PM. Links are provided in the webpage. We cannot guarantee on the spot registrations. On spot registrations will be open only for limited number of teams.

- **Que:** I am a student from a different stream and have no prior robotics experience. Can I participate?

  Ans: No, we would suggest you to attend Roboceana or RC Bots events which are workshop cum event.

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COORDINATOR'S DECISION IS FINAL.

NOTE: Teams are responsible for their Bot's and needle safety.

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LOOKING UP TO MEET YOU ALL AT THE EVENT

THANK YOU