



## Confloat

### Task

*The object is said to be "buoyant" when it floats due to low density. By spreading out the concrete used to make the boat over a larger volume, the apparent density of the boat becomes less than that of water.*

### Arena

*Whether an object will sink or float in water depends on its density. An object will float if it is less dense than water. An object will sink if it is denser than water. If an object has a density equal to that of water, it will neither sink nor float. Concrete can be made to float if it is shaped like a boat. A boat-shaped or hollow object will displace a volume of water greater than the actual volume of solid material in the object.*

### Machine Specifications

*A tank full of water will be provided to students for testing*

### Event Rules

- In the laboratory, every team will be provided with the basic constituents like cement, sand, aggregate, water, RHA and thermocol. Mix these constituents properly.*
- Every participating team should bring their own boat shaped mould (for example a Tupperware bowl).*
- Coat the mould with silicon spray or oil so that concrete will not stick to it.*
- Slowly pour the concrete over the mould and stopping when you reached your desired thickness.*
- The maximum time allowed for this task is 30 minutes.*
- Once constructed should be left for 24 hours.*
- Each team should consist of 3 members.*
- Every team should have unique participants i.e. no two team can have either a single participants common.*
- The team members can be from different colleges and institutes with their valid id card.*
- The decision of organizing committee will be final.*
- The organizing committee reserves rights to change the rules at any time & changes will be notified to the participants at that time.*
- Spot the error Rules and regulations can be altered at any point of time and same will be informed at earliest*

### Judging Criteria



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*The judgment is based on the floating capability of concrete in water tank,*

### **Provisions at Competition Site**

*Each team will be provided with the basic constituents like cement, sand, aggregate, water, RHA and thermocol.*

### **Faculty Coordinator Details**

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