

THERMAL CHALLENGE

➤ **Task:**

Event involves fabrication of an insulated box to minimize heat loss. The fabrication will be done by the participating team at their own place. The equipment should be fabricated in such a manner that it should minimize heat loss to surroundings; the capacity of the box should be limited to one litre of water. The thickness of each wall should not exceed 5cm (inclusive of insulation). Each participant will be given 500 mL of hot water (90 °C).

- i. The water will be kept in the fabricated equipment for 2 hours.
- ii. The efficiency of equipment will be tested by measuring the temperature after 2 hours.

The minimum reduction in temperature of the water will be announced as a winner.

Note: Any material of construction can be used.

➤ **Arena:**

Block 3A (5th Floor)

➤ **Machine Specifications: Not Applicable**

➤ **Event Rules**

The thickness of each wall should not exceed 5cm (inclusive of insulation). Each participant will be given 500 mL of hot water (90 °C).

- i. The water will be kept in the fabricated equipment for 2 hours.
- ii. The efficiency of equipment will be tested by measuring the temperature after 2 hours.

➤ **Judging Criteria**

The minimum reduction in temperature of the water will be announced as a winner.

➤ **Provisions at Competition Site: Not Applicable**

➤ **Faculty Coordinator Details**



**CHANDIGARH
UNIVERSITY**

Discover. Learn. Empower.



Name: Dr. Maninder Kumar
Ph. no. 9872086689
Email maninderbhatoy@gmail.com

➤ **Student Coordinator Details**

Name Harshvardhan & Sagar
Ph. no. 9501206902
Email shrivastavaharshvardhan5@gmail.com