

Mechanical Triathlon

(Think Fast. Build Smart. Hit Perfect.)

AIM:

Mechanical Triathlon is a dynamic, skill-driven event designed to test a participant's core mechanical engineering instincts through three exciting and progressively challenging rounds. The competition evaluates a blend of visual estimation, hands-on construction, and precision-based mechanical accuracy, reflecting the real-world abilities expected from a mechanical engineer.

Participants will showcase their ability to observe, design, build, and accurately execute under constraints—mirroring practical engineering scenarios. This individual-participation event encourages creativity, analytical thinking, and mechanical intuition as contestants estimate dimensions, construct a functional catapult from basic materials, and ultimately compete in an accuracy-based launching challenge.

GENERAL RULES:

- This is an **individual participation** event.
- All three rounds must be completed using **only the materials provided** by the organizers.
- Participants must follow all instructions given by the coordinators **strictly**.
- Time limits for each round must be respected; late submissions or attempts will not be considered.
- In Round 1, participants must estimate dimensions **without touching or approaching the object**.
- In Round 2, only provided materials may be used for building the catapult.
- In Round 3, participants must use the **same catapult built in Round 2**—no modifications allowed after the round starts.

Flow of Event:

Individual competition in all the three rounds R1,R2 and R3,

(R1 is eliminatory.)

ROUND DETAILS:

ROUND 1 – Visual Dimension Estimation

Participants must **observe predefined mechanical objects from a fixed distance** and **guess a specific dimension** (length, diameter, thickness, etc.). Scoring is based on **least deviation** from the actual measurement.

ROUND 2 – Catapult Building Challenge

Qualified participants will **build a functional catapult** using only the provided materials (paper, sticks, glue, rubber bands).
Time-limited. Evaluation based on **build quality and functionality**.

ROUND 3 – Precision Aiming Test

Using the catapult built in Round 2, participants must **launch a projectile at a defined target zone**.

The winner is decided by minimum deviation from the target center.

PRIZE WORTH

₹ 8K (4k+2.5k+1.5k)

CONTACTS:

Ayush Dutta: 8972851567