



# TECHNICAL CLUB 'FLUX'

SPECIALIZED IN IMPOSSIBLE THINGS



## Technovision 2026

### Rule book for Ropeway Racing (Horizontal climbing):

#### **Participation rules:**

1. A team may consist of minimum 2 and maximum 4 members.
2. Individual registrations are not allowed.
3. All members in a team should be enrolled in the same institution.

#### **Competition setup:**

1. The participants are required to construct a bot capable of walking on/hanging from a taut rope.
2. The minimum rope thickness shall be 7 mm and above.
3. The contestants will hang the bot at one end of the ropeway, and on the start of the timer, the bot must start moving along the rope to the end.
4. Upon reaching the opposite end, the performance shall be evaluated as per the marking rules.

#### **Competition rules:**

1. Each team will be given 4 minutes to traverse the ropeway.
2. Each team must complete the ropeway within the allocated time.
3. Every team will be given 2 runs.
4. Each team will be allotted a total of 5 minutes of technical timeout, which may be used between their runs.
5. Usage of technical timeout will require the current run to be restarted.
6. If the robot permanently stalls or falls from the ropeway, the ongoing run shall be terminated.

#### **Bot rules:**

1. The weight of the robot must not exceed 1 kilogram.
2. The robot must fit within a 20 cm × 20 cm × 20 cm volume.
3. An error margin of 10% in each dimension will be tolerated.
4. The voltage difference between two points in the robot must not exceed 12 volts and (only one 12v battery pack is allowed).
5. Only automatic bot is allowed (remote control bot is not allowed).
6. Add safety harness and use smooth hook (recommended)
7. Don't use any type of wheels as a bot gripper.

#### **Marking rules:**

1. Any technical timeout taken shall result in an addition of 5 seconds to the total time taken.
2. The time taken by the robot to traverse the ropeway will be considered as the final

score.

**Venue rules:**

1. Participants are expected to maintain proper decorum and discipline at the venue.
2. Any violent behavior or unprofessional conduct towards organizers or other participants will result in immediate disqualification and removal from the venue.
3. The **organizing committee has the right to modify the schedule**, or structure of the event if required.