

Presentation :

The **Robot Sumo** competition is similar to the concept of a sumo fighting game: two robots are placed in a circular arena, with a mission which is to get the opponent out of the arena. Robots should only use wheels or tracks. It is allowed to equip the robot with a processing system allowing to capture and control the opponent.



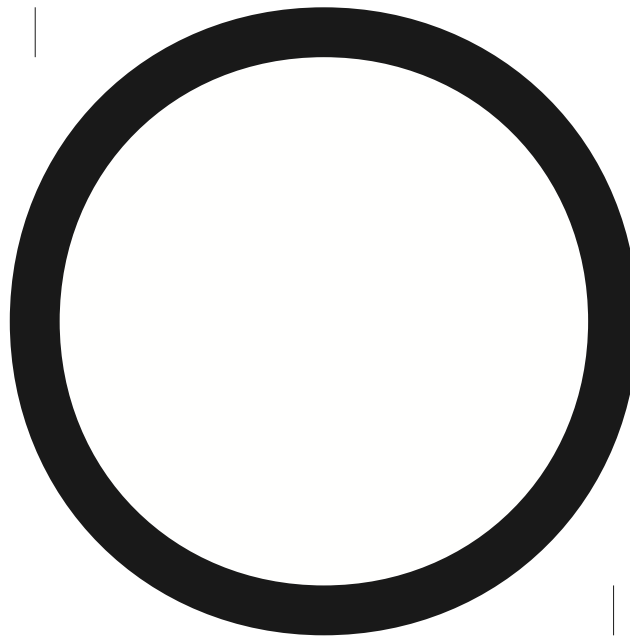
Characteristic of the robot:

- The robot can be entirely or partially built by the participants.
- The maximum dimensions of the robot: 35cm: 35cm (length: width)
- The maximum weight: 5 Kg
- The robot must not use systems that block it in place. Any use of tools intended to damage the opponent or the playing area is prohibited.
- The VEX robot is authorized.
- The NXT robot is authorized.
- The mBOT robot is authorized.
- The robot can be deployed, but always within the limits indicated.
- The robots can be autonomous or remote-controlled.

- The use of cables for control during the game is prohibited.
- The energy source must be internal.

Characteristic of the arena:

The track where the competition takes place has a circular shape. It is white with a smooth surface and 2.50m in diameter with a 4cm wide black border.



Course of the competition:

The schedule of meetings for all phases of the tournament will be drawn by lot, regardless of the type of robot.



Please notes : a meeting can be between two different types of prefabricated robots (VEX / mBOT / NXT / ..) .

- The meeting lasts 5 min.
- Each round begins with a kick-off, given by the referee.
- The robots will be positioned in reverse and offset.
- A fight takes place on a round.
- From kick-off until the end of the round, participants will not be allowed to touch their robots.
- The robot loses the round in the following cases:
 - * If it stays immobile for 15 seconds.
 - * If one of the robots moves before the start signal.
 - * If the participant touches the robot before the end signal.
- The robot is declared the winner if it succeeds in bringing out the opponents and remains the last mobile robot on the track.
- In case of a tie, the winner will be decided by the minimum distance between him and the end (the nearest loses).
- In case of a tie in distance , the round is repeated.

General rules:

- Only registered teams are allowed to compete.
- The maximum number of participants per team is 5: (team leader and 4 member).
- The teams must respect the rules of safety and fair play: only the team leader is authorized to present the robot and to communicate with the members of the committee for any complaint or specific needs.
- The participants must in no case discuss the decisions of the jury.
- Any violation of the rules or cause of problems will result in the immediate disqualification of the team.

