



FES Race



FUNCTIONAL ELECTRICAL STIMULATION BIKE RACE

The pilots of this bike race are paraplegics, i.e. their lower extremities and parts of the torso are paralyzed. With the help of functional electrical stimulation (FES) of the leg muscles, a contraction is triggered and enables the pilot to perform a pedalling movement on a recumbent bicycle.

CHALLENGES FOR 2020

The race distance has been increased compared to the CYBATHLON 2016 and now leads over 1200 meters instead of 750 meters. This distance must be covered in the same available time of eight minutes, which requires an increase in efficiency compared to 2016.



Time Limit
8 minutes

Scoring

1. The first pilot to reach the finish line wins the race (1200 meters).
2. If no one reaches the finish line within the time limit, the pilot who completes the biggest distance wins. Entire meters are also counted.
3. If several pilots complete the same distance, the fastest pilot wins the race.

Main Competition Rules

The referee can issue warnings in case of rule violations. After three warnings the pilot concerned will be taken out of the race and the distance and time completed up to this point will be counted.

The following violations result in a warning:

- Pushing the legs with the hands to support pedalling. It is sometimes necessary for a pilot to briefly press their legs to overcome "dead spots", which are triggered by inappropriate stimulation. This is therefore allowed to a certain degree.

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