



International Robotics Competition ROBO-VEHICLE PILSEN 2026

JUDGING CRITERIA

Best design

The following criteria are evaluated in the best design category:

- 🕒 Technical documentation and its implementation 0 – 5 points
- 🕒 Use of software tools 0 – 5 points
- 🕒 Construction skills 0 – 5 points
- 🕒 Aesthetic impression 0 – 10 points
- 🕒 Innovation 0 – 5 points

The maximum number of points is 30.

The team with the highest number of points wins the category.

Technical documentation and its implementation

Technical documentation includes the choice of hardware components (control unit, motors, batteries, drivers, peripherals and their interconnection and communication). A block diagram of the designed device is mandatory. In the case of designing your own printed circuit boards, their circuit design is also required.

Use of software tools

Selecting and using appropriate software tools to create a 3D model of the vehicle (chassis and body) and checking it for correct printing on a 3D printer, choosing other tools to create a block diagram or printed circuit boards. Using other interesting software tools. The ability to select and work with software equipment to solve subtasks associated with the creation of a robotic vehicle is assessed.

Construction skills

The ability to correctly connect individual components will be assessed, as well as the quality of work, with an emphasis on students' skills in creating electronic systems and their connection with the mechanical parts of a robotic vehicle. The task is to minimize the number of components, maximize their contribution to the solution, and also choose the correct and appropriate arrangement with an emphasis on the reliability of the solution and the quality of craftsmanship.

Aesthetic impression

In this category, the aesthetic impression of the created car is important, with an emphasis on the compactness and arrangement of elements, the quality of the 3D printing surface finish, the surface finish, and the overall impression of the created product. Various interesting solutions for lighting and sound effects can also be useful in the evaluation.

Innovation

If the robotic car contains interesting innovations in the area of design, hardware, or other parameters that distinguish it from conventional vehicles in the basic configuration, the team may be awarded points in this category.



International Robotics Competition ROBO-VEHICLE PILSEN 2026

JUDGING CRITERIA

Best presentation in English

The following criteria are evaluated in the best presentation in English category:

- 🕒 Presentation structure 0 – 10 body
- 🕒 Language and answering questions 0 – 6 points
- 🕒 Non-verbal communication 0 – 8 points
- 🕒 Use of presentation tools 0 – 6 points

Maximum number of points is 30.

The team with the highest number of points wins the category.

Presentation structure

The presentation contains all parts (introduction, main part, conclusion), is understandable and clearly structured. The presentation time limit of 7 minutes is observed.

Language aspect and answering questions

There are no grammatical errors in the presentation. The presenter speaks in formal language, is easy to understand and uses professional terms. Responses to questions are prompt, understandable and relevant to the topic.

Non-verbal communication

The presenter has the correct posture, appears confident, hand movements are appropriate and correspond to the spoken word. The presenter maintains eye contact with the audience. The presenter is appropriately dressed, controls emotional expressions and stress.

Use of presentation tools

The presentation is generally well-made, has appropriately chosen background colours and is easily visible, including an appropriate font size. It contains images, an appropriate amount of text, and the length corresponds to the presented topic. Animations, transitions, embedded objects and other tools are used appropriately in the presentation.