

**Ministry of Education, Science, Research, Development and
Youth of the Slovak Republic
Secondary School of Electrical Engineering, Zochova Bratislava
Slovak Society of Electronics
Slovak Centre of Scientific and Technical Information**



**NATIONAL COMPETITION
in Building and Programming Robots
for Primary and Secondary Schools
R o b o C u p 2 0 2 5**



BRATISLAVA
February 26 - 28, 2025



PROPOSITIONS

25th National Competition in Building and Programming Robots for Primary and Secondary Schools - RoboCup 2025

Competition Goal: to develop the interests, creativity, knowledge, and skills of children and youth in the field of construction and programming of automated and cybernetic systems for controlling technological processes.

Competition Announcer: Ministerstvo školstva, vedy a výskumu SR
Ministry of Education, Science, Research SR

Competition Organizer: Slovak Society of Electronics Bratislava
Center of Scientific and Technical Information SR

Competition Host: Secondary School of Electrical Engineering
Zochova 9, Bratislava

Organizing Committee: Chairman: Mgr. Jakub Krcho (0948 187 540)
Ing. Marián Beniak, PhD., Mgr. Stanislav Slačka

Competition Director: Miro Kohút (0905 521 989)

Chairman of the Jury: Mgr. Pavel Petrovič, PhD. (0915 772 685)

Expert Jury: P. Bahník, R.Gaži, J.Gál, T. Gieci, B.Kahánková,
J.Krcho, K.Karabín, M.Kacián, M.Maszay,
A.Matejov, M.Šuppa, M.Prokaj, P.Vargovčík

Competition Date: 26th – 28th February 2025

Location: S P Š E Z o c h o v a, B r a t i s l a v a

Competition Categories: **Electronic Robot:**

- *Robot Construction* from a robotic kit on a specified theme – autonomous robot
- *Robot Arm*
- *Autonomous Drone*

RoboCup Junior:

- Soccer - Open League with an orange ball
- Soccer - Lightweight with an electronic ball
- Soccer - 1 on 1
- Rescuer on the Line - Rescue Line
- Rescuer in the Maze - Rescue Maze
- Rescuer - CoSpace Rescue - simulated version
- Rescuer – Simulation – rebus/CoSpace/Roberta
- Robot Dance – On Stage

Robot Construction: teams will create a model on-site using their own kits (the type of kit and material used are unrestricted) and develop a program so the model fulfills the requirements of the given task. The scoring system will be announced by the jury before the competition.

Robot Arm: participants will program a robot arm to perform tasks at a robotic workstation according to a given assignment. Competitors bring their own robot arm to the competition, constructed according to the instructions on the manufacturer's website, LEGO - Robot Arm. The evaluation system will be announced by the jury before the competition

Autonomous Drone: the rules are published on the website <http://robotika.sk/rcj/dron>.

RoboCup categories: participants can be students from primary or secondary schools and will be evaluated in a shared results list. Apart from soccer, primary schools (or lower grades of 8-year grammar schools) and secondary schools will also be evaluated separately.

Advancing teams must comply with the minimum age requirements according to international rules.

The rules for these categories are identical to the international rules (rcj.robocup.org). Matches in the soccer category consist of two 5-minute halves.

*Winning teams in the RoboCup categories will advance to the 6th European RoboCup Junior Championships 2025 - **Bari, Italy, June 4–7, 2025** (<https://www.robocupjunior.eu>),*

*and to the 28th World Championships for Robot Soccer - **RoboCup July 15–22, 2025**, in Salvador, Brazil (<https://2025.robocup.org>).*

The qualification key is updated on the website: <http://robotika.sk/rcj/kluc>.

Schedule:

Wednesday, February 26, 2025

- From 10:00: Arrival, registration, accommodation
- 12:00: Lunch
- 13:00: Competition opening
- 13:30: Construction, Robotic Arm, RoboCup training
- 18:00: Dinner
- 19:00: Presentation of solved tasks
- 20:00: Mentors' and jury meeting, RoboCup training
- 22:30: Lights out

Thursday, February 27, 2025

- 07:30: Breakfast
- 09:00: Soccer, Rescue
- 10:00: Drone, On Stage - interviews
- 12:00: Lunch
- 14:00: On Stage, Rescue, Soccer – semifinals and finals
- 18:00: Dinner
- 19:59: Gala evening for participants
- 22:30: Lights out

Friday, February 28, 2025

- 07:00: Breakfast
- 08:00: Official announcement of results
- 10:00: Departure of participants

Any changes to the program will be communicated to all parties in advance.

Participation Conditions:

Registration can be completed via <http://www.skse.sk> – RoboCup.

The entry fee for each competition participant is **€20**. In the event of sponsor support, the entry fee may be reduced.

Accompanying pedagogical supervisors, as well as additional participants, will cover their own costs for meals and accommodation. The total cost is **€69**, which can be paid to the SSE account or in cash upon registration. This fee includes **2 nights of accommodation, 2 breakfasts, 2 lunches, and 2 dinners**.

Technical and Organizational Provisions:

In the interest of further developing robotics and programming skills among children and youth, participation in the competition requires consent to the publication of factual materials. Participants also agree that they, or their robots, may be photographed or recorded, and such material may be used for technical, scientific, and promotional purposes.

Each team must bring its own kit and computer for solving assigned tasks, as well as its own robot for RoboCup and indoor shoes for school premises.

Details of models and developed programs for controlling competition robots must be uploaded in advance to the website galeria.robotika.sk.

An unlimited number of teams can register from any school. There are no restrictions on the number of students per team. A team may compete in multiple categories.

The entire competition will take place SPŠE, Zochova Street 9, 811 03 Bratislava, where all competitions, presentations, the opening ceremony, and the official announcement of results will be held.

Accommodation is provided for properly registered participants at the dormitory of SOŠT, Vranovská 4, Bratislava (<https://www.sostvranovska.sk>).

The organizing committee reserves the right to update the schedule, and participants will be informed accordingly. The organizer ensures accommodation, meals, venues, and technical equipment (fields) for properly registered participants.

If the organizer incurs costs due to undisciplined behavior or failure to follow the propositions and instructions of the organizer, those responsible for causing the issue will be liable for these costs. The organizer is not responsible for any technical equipment or personal belongings of the participants.

